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A. Borell

1963

Catalogue

#6138 - 6273





# Catalogue

- Borell  
6-March  
1963  
Ojo Laguna, 5000 ft. el.  
Chihuahua, Chih. Mex.  
(60 miles north of the City of  
Chihuahua on the ranch of  
Feb 28
- 6138 Black-throated sparrow ♀ ova minute
- March 1
- ✓ 6139 White Crowned sparrow ♂ Testes not enlarged  
from group of 3 feeding on cottonwood  
catkins
- ✓ 6140 Vesper sparrow ♂ Testes not enlarged
- 6141 Lincoln sparrow ♀ ova minute
- 6142 Brewer sparrow ♀ ova minute
- 6143 " " ♂ testes minute (Skeleton)
- ✓ 6144 Ruby Crowned Kinglet ♂ testes minute (collected  
Feb. 28
- March 2
- ✓ 6145 Song sparrow - ♀ ova minute
- ✓ 6146 Wilson snipe ♀ ova minute, well  
fleshed but not fat
- 6147 Wilson Snipe ♀ ova minute, well  
fleshed but not fat. crops of both  
contained earth worms & small black  
insects.





# Catalogue

Borell  
1963 Ojo Laguna, Chihuahua, ~~Chih~~ Mex.  
5000 ft el.

March 2

6148 Teal, green-winged ♂ Testes not enlarged,  
very slender, measured  $7 \times 1$  m.m. very fat.  
stomach (gullet) contained insects and many  
small black seeds.

✓ 6149 Teal, green-winged ♀ ova minute.  
some fat but not so fat as ♂  
(above) taken from the same flock.

6150 Baldpate ♂ testes not enlarged  
measured  $12 \times 2$  m.m. In reasonable  
flesh but no fat. Shot from flock  
of 30 ducks, mostly teal - no other  
Baldpates seen. gullet empty.

March 4

6151 Onychomys ♀ 139-48-20-16 fat  
no embryo. Taken in tall grass in  
cottonwood runway

6152 Greater Yellowlegs ♀ ova minute  
(skeleton only) First one seen. was  
at small pond with two Diaz  
ducks.



3  
catalogue

Borell March 5 Ojo Sajuma 5000 ft  
1963 → Cinnamom Teal ♂ testes not enlarged  
6153 measured  $8 \times 2$  m.m. Fat. with 3 ♀ first  
seen here. iris bright yellow, feet  
yellowish.

March 6

6154 Junco sp? fat among live oaks  
10 mi. w. Ojo Sajuma 6000 ft. el.

6155 White winged Dove ♀ ova not enlarged, largest  
 $2 \times 2$  mm. lores bluish purple. good flesh  
but not fat. 10 mi. w. Ojo Sajuma 6000 ft. el

Ojo Sajuma, 5000 ft. Chihuahua, Mex

6156 Gray Duck ♀ ova not enlarged  
largest  $2 \times 2$  mm. good flesh but not  
fat. feet dark pink. Shot on small  
ojo pool from flock of 9 Gray ducks.

✓ 6157 Coot ♂ testes not enlarged  $5 \times 2$  m.m.  
iris red, feet greenish gray. Shot  
from small ojo pool. with 9 Gray  
ducks. only coot seen to date.





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# Catalogue

1963

R & Borell March 6. Ojo Sajuma, Chihuahua  
5000 ft. el. Mexico.

6158 Scaled Quail ♂. testes not enlarged  $3 \times 2 \text{ mm}$ .  
In good flesh but not fat. Shot  
from flock of 30. Crop full (saved).

6159 Stomachs (crops) of six scaled quail  
taken from flock of 30 at 6 P.M.

6160 Crops of 3 mourning doves.  
taken 10 mi. W. Ojo Sajuma at  
el. of 6000 ft.

March 10

✓ 6161 Savannah Sparrow ♀ ova minute

✓ 6162 Myrtle? Warbler ♀ ova minute

March 11

6163 Painted Redstart ♀ ova minute

6164 Brewer? Sparrow ♂ testes minute.





# Catalogue

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A. E. Borell Ojo Laguna, Chihuahua Mex.

1963 El 5000 ft.

March 12

- ✓ 6165 Pippit ♂ testes minute
- ✓ 6166 Longspur ♀ ova minute
- ✓ 6167 ~~Western~~ Sandpiper ♂ testes minute. legs <sup>olive,</sup>
- ✓ 6168 Snowy Plover ♂ testes not enlarged 4x1 mm.
- ✓ 6169 Longspur ♂ Testes not enlarged 1x1 mm. <sup>inches</sup>
- 6170 Coyote ♀ wt.  $24\frac{1}{4}$  lbs.  $45\frac{1}{2}$  -  $12\frac{1}{2}$  -  $7\frac{1}{4}$  -  $4\frac{1}{4}$   
 over very fat very old. Trapped by  
 Gutierrez. near our camp -  
 traps set for raccoon. no emb.
- ✓ 6171 Horned Lark ♀ ova minute
- other only 6172 Crane (Little Brown?) feather only. see  
 notes in journal for this date
- ✓ 6173 ~~Guarshopper~~ ? Sparrow ♀ length 153 mm.  
 ova minute. shot at sunset among  
 bulrushes. yellow at wing bends,
- 6174 Blackbird? ♀ ova minute, mounting  
 on head. very fat. was sitting alone  
 in top of large willow tree.

fattest coyote I ever saw - removed  
a double handful of pure fat  
from the stomach cavity around  
the kidneys. In spite of its  
age it ~~may~~ be staying fat  
on the heavy population of  
cotton rats and dead livestock. Its  
stomach was full of cow hair and old hide.

# Catalogue

6

1963

E. E. Borell Ojo Saguna Chihuahua, 5000 ft Mexico  
March 13

6175 Cinnamon? Teal ♀ ova small  
no fat. in company of three other ♀ teal

6176 White-Cr. Sparrow ♂ testis minute

6177 " " " ♀ ova minute

These two white crs. (two races) taken  
at one shot from a flock of 30 feeding  
on the ground under a large cottonwood.

6178 Rana - the first and only frog seen.

March 14

6179 Rana <sup>signum</sup> - caught in trap set for rails

✓ 6180 <sup>Swamp</sup> ~~Song~~ Sparrow - <sup>ova</sup> minute Caught in trap  
set for rails among bullrush (3 square)

March 17

6181 Song Sparrow ♀ ova minute

✓ 6182 Dowitcher ♂ testis small 1x3 mm shot  
from group of 4. fat

✓ 6183 Blue-winged Teal ♂ testis small 1x7 mm.

✓ 6184 Shoveller ♂ testis small 3x11 mm. wt 1 lb.

skin was greasy but no real fat.

March 18

✓ 6185 Virginia Rail ♂ testis 2x5. fat.

caught in rat trap set for rail among  
bullrush around permanent ojo pool.



# Catalogue

E & Boll Djo Sajuma, Chihuahua, 5000 ft. el.

1963 Mexico

March 19

6186 Sajuma gillardi ♀ ad 550-65-127-112  
Skeleton Only no embryos. in good flesh but not fat.  
 Had a few small tape worm cysts  
 see other notes under journal for today.

March 20

6187 Coyote ♂ ad.  $46\frac{1}{4}$ -13- $7\frac{3}{4}$ - $4\frac{1}{2}$  wt  $31\frac{1}{4}$  lbs.  
Skull Only Trapped by Sr. ~~Hunter~~ Hunter. Fat but not so fat  
 as ♂ no. 6170. Stomach = afterbirth and cow hair.

6188 Rana caught among bullrush in  
 trap set for rails

6189 Meadowlark ♂ ova small largest  $2 \times 2$  mm.

6190 Audubon warbler ? <sup>not in full song but</sup> notes like eastern race.

6191 Reithrodontomys ♀ 139-64-17-12 no embs

March 21

wing only Mallard ♀ ova small largest  $3 \times 3$  Fat.

6192 shot from group of 5 on <sup>Rio</sup> Santa Clara near  
 old M.V. Z camp site. (1 mi. S. Santa Clara Chihuahua)

March 22

6193 Gratchater ♀ ova minute

6194 Peromyscus ♀ 197-88-21-15 lactating

6195 " ♀ 143-59-20-15 4 embs. measurement  
 in each  $10 \times 12$  mm.

6196 Chipping? sparrow ♀ ova minute. was in  
 company of several others in large cottonwood.





# Catalogue

8

A. E. Borell Ojo Laguna, Chihuahua, 5000 ft. Mexico  
1963 March 22

6197 Redwing ♂ testes  $2 \times 2$  alone in willow tree  
only one other ♂ seen, no ♀s, little singing

6198 Chipping ? Sparrow ♀ ova minute. # 6196 <sup>was with</sup>  
March 24

6199 Rail, Virginia ♀ ova small, very fat  
caught among bullrushes in trap set for rails

✓ 6200 Raccoon ♀ 785-270-110-57 wt 11 lbs.  
Fat - no embs. Stomach contained bait items.

6201 Hoary Bat ♀ 137-48-5-18 no embs. not fat.  
Shot while hanging from twig in large  
cottonwood at 3 p.m.

✓ 6202 Snow Goose ♀ ova small, largest  $2 \times 2$   
mostly  $1 \times 1$  mm. shot from flock of 100.  
Mar 28

✓ 6203 Pine Siskin ♀ ova minute, one of two feeding  
in a willow tree.

✓ 6204 Baird's Sparrow ♀ ova minute single bird.

✓ 6205 Snowy Plover ♂ testes enlarged  $10 \times 2$  from  
group of 5. (very fat)

✓ 6206 Savannah Sparrow ♀ ova minute. from  
group of 8.

6207 Horned Lark ♂ testes enlarged  $5 \times 6$  mm.



1963

A. E. Boell Ojo de Saguna, Chiapas Mexico 5000 ft. el.  
March 29

6208 Raccoon ♀ 815-280-120-58. 11 1/4 lbs  
fat. no embs

✓ 6209 Palm warbler ♂ testes minute.

✓ 6210 Towhee, green-tailed Fova minute,

6211 Sparrow, grasshopper? Fova minute - from  
tree gird near grass

6212 Sparrow, song Fova minute

6213 Bufo March 30 *B. woodhousei*

6214 Kangaroo rat ♀ 184-95-35-11 no embs  
caught at edge of caecatorae

6215 Bewick Wren ♂ testes small } 30% worn worn

6216 " " Fova small } shot from  
a big cottonwood where they foraged along  
the trunk and top branches from 20  
to 40 ft above the ground.

March 31

6217 Virginia Rail ♀ ova small -  
(no fat) 1x1 mm.

✓ 6218 Curlew ♀ ova small, from flock of 54.

✓ 6219 Quail ♀ ova small 2x2 mm. very fat. from  
scattered group of 100. (fat)

\*over 6220 Gull, ring-billed? length 20 in. ♂ testes small 5x1 mm.

6221 Salamander, found near shore of big lake.  
*Ambystoma tigrinum*

\* feet and legs pale yellow greenish.

# Catalogue

10

1963

✓ E. Borell Ojo de Saguna, 5000 ft. Chihuahua, Mexico  
April 1

6222 Thrasher, curve billed? ♂ testes small 2x2 mm.

6223 Brown Towhee ♀ ova small

~~6222~~ April 2

✓ 6224 Western Sandpiper, ♂, testes 1x1 mm. fat, shot  
from flock of several hundred (fat)

6225 Cotton rat ♂ 248-95-29-18 testes enlarged  
caught among bullrushes in wet area

6226 Salamanders 4 adults } Served from

6227 ambystoma 6 sub adults } salty playa

6228 " 7 larval } lake,

April 5

6229 Salamanders, 9 sub adults <sup>drying</sup> from playa lake

6230 Bi-valves, small jar of shells from edge

of big playa lake. I could find no living specimens.

6231 Kangaroo Rat ♂ 232-118-36-10 testes enlarged, 20x8

April 6

✓ 6232 Lucy warbler ♀ ova minute - shot from  
large cottonwood. one or two seen each  
day since mar 30. fat no emb.

6233 Bannertail - Kangaroo Rat ♀ 316-178-53-13

6234 Gopher ♀ 240-65-32-5 no emb. - from  
sandy-gravelly soil.





# Catalogue

11

1463

R E Boell Ojo de agua, 5000 ft. Chihuahua Mexico

April 8

✓ 6235 Bittern ♂ testes enlarged  $8 \times 20$  m.m. flew from bullrushes around ojo pool. stomach full of giant black water beetles. 7 could be regurgated.

6236 Yellowthroat ♂ testes small  $1 \times 1$  m.m. shot from 15 ft. in cottonwood. Second <sup>one</sup> seen.

6237 Vireo, Solitary ♀ ova minute, from large alamo.

✓ 6238 Olive-backed Warbler ♀ ova minute, from alamo.

April 9

✓ 6239 Black-tailed grackle ♂ testes enlarged  $2 \times 3$  mm alone in mesquite.

✓ 6240 House wren ? from large alamo.

6241 Goldfinch ♂ testes minute

April 13

6242 Cactus Wren ♂ testis slightly enlarged  $4 \times 2$  mm.

✓ 6243 Botteri Sparrow ♂ "  $1 \times 2$  mm

✓ 6244 Weeds Crested flycatcher ♂ testis  $7 \times 3$  mm.

✓ 6245 Parula Warbler ♂ testis enlarged  $2 \times 4$  mm

April 14

6246 Coyote ♀ 1200-345-190-110 wt  $10\frac{1}{4}$  Kg

Skull only ( $22\frac{1}{2}$  lbs) in good flesh but not fat.

young adult no embos. stomach full of beef carrion. caught in trap set for raccoon



## Catalogue

1963

R & Borell Ojosaguna, Chihuahua, 5000 ft. el. Mexico  
April 14 (cont)

6247 Swamp Sparrow? Had nematodes in area  
of gonads. was with three other swamp sparrows  
among bullrushes and weeds in wet area.

6248 Virginia warbler ♂ Testes enlarged 2x3 mm

6249 Orange Cr. Warbler ♂ Testes 1x1 mm.

6250 Wilson Warbler ♂

6251 Rana pipiens

April 15

6252 Top minnows (4) from Ojo

6253 Tadpoles from Ojo

6254 King Snake, in grass at edge of mesquite

6255 Hornedtoad, Phrynosoma macleayi " "

April 16

6256 Yellow Racer, 20 miles west of

Gallego 5200 ft Hartwegia Boylei

6257 Striped Racer, 4 mi. S. Ricardo Flores

Wagon, 5000 ft. el. on the Rio Santa Clara.

6258 Snakes 3, Rio Santa Clara, Ricardo Flores Wagon.

6259 Minnows 3 " " " " " "

6260 " 4 " " " " " "

6261 Tadpoles 4 " " " " " "

6261A Chub 1



1963

Mexico

R. E. Boll Ojo Saguma, 5000 ft. el. Chiamauma  
April 17

6262 Empidonax ♂ testes small. from willow. <sup>tree</sup>

6263 Garter Snake, from wet area near ojo.

6264 Diaz duck ♀ wt. 1½ lbs. ova 3x4 mm.

Bill yellow-orange, light greenish near base and tip, nail dark, ridge and a widened 'saddle' brownish. Brown ridge separated from nail by greenish. Feet coral or dark pinkish orange. was with 4 others. The skin was very greasy but there was not a heavy layer of fat. Many pin feathers about ½ developed, run down.

✓ 6265 Tree Swallow ♂ tes. minute

April 18

6266 Whitewing Dove ♂ testes enlarged 13x5 mm.

cere blue, iris yellowish orange. Fat.

✓ 6267 Crissal Thrasher ♀ one enlarged 2x2

April 20

pro only 6268 Scaled Quail (Crops only, from 5 killed for the table  
testes of 2 ♂. enlarged 3x4 mm. ova of 3 ♀. not enlarged.



1963

E. B. Borrell Ojo de Agua, Chihuahua, 5000 ft. el Mexico

April 25

- ✓ 6269 Hermit Thrush ♀ Ova small  
6270 Cowbird ♂ testes enlarged - shot from  
group of 4 males - first ones seen  
6271 Kingbird?  
6272 Grackle ♂ testes enlarged 5x10 mm.





Borall

1963

Journal



# Journal

Borell

Ojo Saguna 5000 ft el  
Chihuahua, Chihuahua Mex  
(60 mi. north of the city  
of Chihuahua on the ranch  
of <sup>Dr. Crescencio Gutierrez</sup> ~~Dr. Crescencio Gutierrez~~  
Manuela E. De Gutierrez  
Same site as occupied by  
two previous M V Z parties.  
(Ojo Saguna Station)

Feb 27  
1963

Mrs Borell and I occupied  
site at noon with G.M.C.  
suburban and 26 ft. Airstream  
house trailer. Made camp and  
set up tent. Warm and  
very windy.

## Birds seen

Brewer blackbird - 10

Mourning Dove - 100

Meadowlark - 10

Marsh Hawk - 2

Black-throated Sparrow - 4 (collected 1)

✓ Ruby crowned Kinglet - 1 (collected)

Brewer Chipping Sparrow - 20

Shrike - 1

Herps - none

Trachs - none

— 22 —

— 23 —

# Journal

2

Buell  
Feb. 28  
1962

Ojo Laguna 5000 ft. Chih. Chih.  
Birds seen. Cold 55° at noon  
Wilson snipe - 50 Windy  
Marsh Hawk - 2  
Red tail Hawk - 1  
Mourning Doves - 50 {some cooing-in-  
flocks, no pairing  
Vesper Sparrow - 3  
Shrike - 2  
Meadowlark - 10  
Black throated sparrow - 10  
Brewer sparrow - 40  
Brewer blackbird - 12  
Vermillion flycatcher - 2  
Say Phoebe - 2  
Sparrowhawk - 1  
Marsh wren - 1  
Raccoon - fresh tracks seen

Spring is just beginning to break.  
Cattkins on female cottonwoods  
are <sup>fully</sup> open. Heard mourning doves  
cooing. No leaves on cottonwoods,  
willows, Catclaw or mesquite.  
Ground is dry but considerable  
water Ojo Laguna Lake.



## Journal

Borell.  
March 1  
1963

Ojo Saguna 5000 ft. Chihuahua  
~~Chih. Mex~~

Birds seen:

Cactus wren - 1

Wilson Snipe - 5 only five in  
same field in which I saw  
50 yesterday

Brewer's Sparrow - several hundred  
abundant everywhere in brush  
in large flocks. (Two collected)

Brewer Blackbird - 15

Lincoln's Sparrow - 1 (collected)

Vesper Sparrow - 10 (1 collected)

White Crown Sparrow - 10 (1 collected)

Mourning dove - 20

Shrike - 1

Sparrow Hawk - 1

Marsh Hawk - 2

Black-throated Sparrow - 10

Meadowlark - 10

Ducks - none

Geese - none

Cold last night - ice on water. 30°F  
at 7 am. To-day is beautiful  
and warm - only slight wind. 77°F at noon.

Audubon warbler - just one seen here -  
They were abundant at Mazatlan in Jan & Feb.





## Journal

Borell  
March 2  
1963

Ojo Laguna 5000 ft. Chihuahua  
~~Chih.~~ Mexico

Cold and calm last night, ice  
on open water 30° at 6 a.m. Warm  
sunny day 80° at noon windy  
in P.M.

Tried spotlighting Wilson snipe  
last night - saw none.

## Birds seen

Brewer Sparrow - several hundred

White Cr. Sparrow - 20

Song Sparrow - 1 (collected) First seen  
among sedges

Vesper Sparrow - 10

English Sparrow - 3 (beginning migration Sept 5)

Black chinned Sparrow - 6

Brewer black bird - 15

Sparrow hawk - 2

Marsh hawk - 2

Shrike - 1

Meadowlark - 30

Vermilion flycatcher - 3

Say Phoebe - 4

Wilson Snipe - 10 (collected 2)

Baldpate (collected)

Green-winged Teal - collected 3 from

flock of mixed ducks - others not  
identified. Díaz Duchs saw two flying at  
sunset.



# Journal

(Cont.)

5

Borell Ojo Sagua, 5000 ft. Chihuahua  
March 2 ~~Chih.~~ Mex.  
1963

## mammals

Tracks of large raccoon in  
path leading to marsh.

~~Mr.~~ Gutierrez has killed  
two striped skunks apparently  
m.m. . Too ripe to save.

Heys - heard toads <sup>offrogs</sup> in marsh last  
night. Have seen no snakes  
or lizards

Saw tadpoles in one pool

March 3 Sunday. warmer but windy  
worked on fat ducks collected  
yesterday. Saw no new birds.

Seven traps set in heavy gears for  
four nights have caught 1 cotton rat  
and one Peromyscus maniculatus -  
not saved



Journal  
Ojo Saguna, Chihuahua, 5000 ft Mexico

Borell  
1963

March 4. Hard wind all of last night and to-day. Had to take the tent down to save it. Much dust in the air. Warmer last night, no ice,  $45^{\circ}\text{F}$  at 7 am. Seven mouse & rat traps in tall (wet area) grass caught 1 Onychomys (saved) & 1 Sigmodon (not saved). 5 steel traps set for raccoon caught 0.

went to the pond ( $\frac{1}{2}$  mi. N). where I flushed the 30 ducks on Mar 2. no ducks. Birds seen -

saw most of the birds previously recorded. In addition

Turkey Vulture - 1

Roadrunner - 1

Marsh wren - 1 (seen previously)

Brown towhee - 2

Ring Duck - 1. (Two seen Mar 2)

Harris Hawk - 3 in one cottonwood

Doves are cooing but no nuptial flights.

5 P.M. Returned to Pond ( $\frac{1}{2}$  mi. N) saw one coot (new) and <sup>shot</sup> one Greater

~~Yellowlegs~~ Yellowlegs

Siskin - 1 came to tree on <sup>first seen</sup> Canyon.



Journal  
Ojo Saguna, Chihuahua, Mexico

Buell  
1963

March 5.

Cold wind all <sup>last</sup> night and all of today.

Temp 35° at 7 a.m. 55° at 1 P.m.

Took trap with Sr. Gutierrez to  
Ojo Saguna Station, on the railroad  
5 mi. E. of Ojo (Springs) where we  
are located. There is considerable  
water in the big Laguna but it is  
muddy, salty and too exposed on  
a cold windy day for birds.

New and less common birds

Horned Larks - 30

Diaz ducks - 6 first seen  
Cinnamon Teal - 10 with 3 ♀. (collected)

Baldpate - 1

Brown Towhee - 2

Cactus wren - 2

No major change in birds observed  
first few days. Brewer Sparrows  
still here in large numbers.

Linnet - 3

Scaled Quail - 30 in flock near camp.  
first seen.

Mammals

Raccoon - caught one in steel trap  
but it tangled <sup>drag</sup> traps (1 1/2) around  
post and pulled free  
7 traps in marsh caught 0.





# Journal

8

E. Borell  
1963

Ojo Saguna, Chihuahua, Chih. Mex.

March 6

Less wind but much colder -  $18^{\circ}\text{F}$ . at  
7:30 am.

Made a short trip into the  
marsh this morning and again  
this evening.

Birds seen in and adjacent  
to the marsh were the same  
as for the past several days  
except the following

Coot - 1 (collected)

Diaz Duck - 9 (collected)

Scalloped quail - flock of 30 - six  
taken. all were in good flesh  
but not fat. crops full (sawed)  
quail have not been heard calling  
and the gonads of those taken  
show no enlargement.



Journal

9

Borell  
63

March 6, Ojo Laguna (Cont)  
Drove 13 miles from camp  
along the road leading over the  
mt. to Santa Clara - to 6200 ft.  
Birds observed. west from Parrita

Brewer Sparrow - most abundant  
bird in lower portion of canyon  
but still present at 6200 ft.  
Junco (red-backed) very abundant  
5500 to 6200 ft el.

Vesper Sparrow - common

Brown Towhee - common

Pyrrhuloxia - ♂ & ♀ feeding  
on prickly pear fruit.

Dove, mourning, abundant

Dove, white-winged - 1 (collected)

Jay (scrub?) - 20

Red-tailed hawk - 1

Black Phoebe - 1

Gray Phoebe - 3

~~Red~~ Wren (Bewick) - 1

Robin - 1

Roadrunner - 2

Green-winged Teal ♀ & ♂ together in  
Turkey Buzzard - 1 } pool in creek

Sparrow Hawk - 2

Killdeer - 2.



## Journal

C. Boll  
1963

Ojo Laguna (Continued)

March 6

Red-shafted flicker - 4

Mexican woodpecker - 3

Vermilion Flycatcher - 4

Parula (sp?) - 2

Wren-cactus - 1

Wren-Rock - 1

Mockingbird - 2

Butcherbird - 3

Warbler audubon - 2

English Sparrow - 5 (near camp)

Brewer blackbird - 10 (near camp)

Meadowlark - 10 (near camp)

Goldfinch - 2

Black-throated Sparrow (near camp)

~~Brewer's~~

Lincoln Sparrow! (near camp)

White-crowned Sparrow - 30 from  
camp to 6000 ft. el.

Considerable water at intervals in the <sup>canyon</sup>  
The season appears to be a bit  
more advanced up the canyon than  
here at camp. Willow and  
cottonwoods at 6000 feet el. show  
a distinct greenish cast. willows  
are coming into leaf.



## Journal

R & Boll Ojo Saguna, Chihuahua, Chih.  
1963 Mex. 5000 ft el.

March 7

Prepared specimens - made no  
new observations. Temperature &  
wind moderate

March 8-9 Trip to Chihuahua  
for provisions and mail. Dinner  
with the Baldwins. Saw no new  
birds around camp or enroute.  
Grackles around Santa Rita motel  
where we stayed demonstrated  
mating activity.

March 10 Cold and extremely  
windy. Temp. at noon 60°. Made  
a short trip around the spring  
ponds.

new birds:

Mallard drake - on small pool with  
one Diary ducks. First mallard seen -  
was not able to collect it. no other  
ducks on ponds.

Savannah Sparrow - 10 - one collected

Redwing Blackbird ♀ - first seen

Swallows - 25 - Tree or violet green

Brewer Sparrow - still abundant

Wilson Souse - 25. Harris Hawk - 1





# Journal

## Summary of observations

E. Bull  
963

Feb. 27 through March 10 <sup>(written March 10)</sup>  
Ojo Laguna, Chihuahua, 5000  
ft. el. Mexico

windy and cool to cold most of this period. On two nights the tempo. went below  $18^{\circ}\text{F}$ . judging from the fact that it was still  $18^{\circ}\text{F}$ . when I looked at the thermometer in the morning.

There is still not much evidence of spring. catkins are on cottonwoods and willows but no leaves. Mesquite and catclaw still show no signs of life. a few blades of green are showing on gramma grass and sacaton.

### Breeding activity.

The only birds showing signs of mating are English Sparrows and a few of the Mourning doves. One dove shot (not preserved) had testes enlarged. a few males have been cooing singly in trees and I have seen a few nuptial flights but most of the are still in flocks.

Enlarged gonads were not found in any of the birds prepared.

It appears that most of the birds here during this period are residents or winter residents.



Journal Summary continued <sup>13</sup>  
Feb. 27 - March 10

EBorrell Ojo Sajuma Chihuahua Mex  
963

Herps - a few tadpoles seen  
in one pool.  
Toads heard one night at  
one pool.  
no snakes or lizards seen  
so far.

Mammals - I have done little  
trapping but did catch several  
Peromyscus maniculatus, 1 cotton rat  
& 1 Onychomys. Have seen only one  
bat.

Raccoon tracks of at least two  
raccoons have been seen in  
the trails in the marsh - none taken.

Rabbits are extremely scarce  
have seen fresh pellets of  
jackrabbit only in one place - no  
evidence of cottontail.

Coyote - heard on 3 nights, few tracks

Meplute Mr. Gutierrez trapped  
two just before I came here.



Journal

(Continued) 14

Summary Feb 27 - March 10

(written March 10)

Boull  
1963

Ojo Laguna, Chihuahua, Mexico

Ducks. There is plenty water but ducks are scarce.

Diary Ducks have been <sup>the</sup> most common duck during this period. Saw 1 ♂-♀ almost every day. Saw no evidence of pairing (1 collected)

Green-winged Teal - several seen the first few days - none since.

Baldpate one male collected, one other male seen.

Cinnamon teal - one collected, no others seen.

Mallard. One drake seen this morning in small pool with one Diary duck.

A few other unidentified ducks were seen early on March 2 - appeared to be green-winged teal.



Borell

Journal - Summary (Continued)

Feb. 27 - March 10

15

1963

Ojo de Laguna, Chihuahua, Mex.

Turkey vulture - one seen

Red-Tailed Hawk - one at 6000 ft. el.,  
~~one~~ here near camp.

Harris Hawk - 4

Marsh Hawk - 1 to 3 each day

Sparrow Hawk - 1 to 3 each day

Scalped quail - 30

Coot - 1

Killdeer - 2 - 4 each day

Wilson Snipe - one to 50 each  
day I went to the marsh. although  
widely distributed in wet areas they  
are far more abundant in a  
wet field that had corn growing  
there last season. ~~there~~ although the  
number seen has fluctuated I  
saw 35 <sup>to-day</sup>, which indicates that  
they have not yet migrated out  
of the area.

Greater yellowlegs - 1

Mourning Dove common 30-100 seen  
each day

Whit-winged dove - one at 6000 ft. el.  
in canyon to Santa Clara



\* Rhyer to 6000 ft in  
canyon above Parrita that  
leads to Santa Clara

Journal

16

Summary Feb. 27 - Mar 10 (cont.)

E. Borrell  
1963

Ojo Saguna Chihuahua Mexico

Roadrunner - a single bird seen  
several times

Owls - none seen or heard.

Hummingbirds - none seen

Red-shafted Flicker - 1 or 2 each day

Ladder-backed woodpecker - 2-5 each day

Nighthawks - none

Jay Pheobe - 1-5 each day

Empidonax sp? - only 1 seen

Black Pheobe - 1 at 6000 ft. el. Canyon to Santa Clara

no other flycatchers or kingbirds seen

Vermilion Flycatcher - 1-5 each day

Scrub? Jay - 20 at 6000 ft. \*

Swallows - few seen, tree or violet green?

Marsh wren - 1-5 each day

Bewick wren - 1 at 6000 ft.

Rock wren - 2

Cactus wren - 2

Mockingbird - 1-3 each day

Thrashers - none

Bluebirds - none

Ruby crowned Kinglet - 1 here

one at 6000 ft. el.

Robin - 1 at 6000 ft. el.



Journal

17

Summary Feb 27 - Mar 10 (Cont)

E. Borell Ojo Saguna, Chihuahua, Mexico  
963

Shrike ? - 1 - 3 each day.

Myrtle Warbler (Possibly Audubons)

1 - 10 each day in cotton woods (specimen)

No other warblers seen or heard.

English Sparrow - 1 - 5 each day

around the buildings

Meadowlark - 5 - 20 each day

Orioles - none

Brewer Blackbird - 5 - 10 each day

Redwing - one ♀ today

House Finch - 1 - 3 several times

Goldfinch - 2 at 6000 ft. el.

Brown Towhee - 2 seen most

days around buildings near

camp. abundant in canyon at 6000 ft.

Spotted Towhee - 1 seen

Severn <sup>Sparrow</sup> - 1 to 10 in sacaton

on several occasions (specimen)

Vesper Sparrow - 10 - 30 each day

Black-throated Sparrow - 5 - 10 each day

Junco (Mexican?) abundant in

canyon west of Parrita at 6000 ft.

No juncos seen here at camp

\* Brewer Sparrow - the most

abundant but from here to about

200 ft. - 100 & possibly 500 seen each day (specimens taken)

see  
over

see over

\* There could be clay-colored or  
chipping sparrows in these  
large concentrations

Journal

Summary Feb 27 - Mar. 10 (Cont) <sup>18</sup>

2 E. Bell  
1963

Ojo de Saguna, Chihuahua, 5000 ft.  
White Crowned Sparrow 5-20 each day  
Lincoln Sparrow - 1-5 each day

Song Sparrow - 1 (collected)

✓ Pine Siskin - 1 in cottonwood over camp.

Pyrauloxia ♂ & ♀ feeding on  
cactus fruit at 5500 feet in  
canyon above Paruta.

Note. White-crowned Sparrows, Black  
throated sparrows, Linnet and  
House sparrows have been  
observed (with binoculars) feeding  
on the female catkins of cottonwood  
growing over our camp.



26 Borell Ojo Saguna, Chihuahua, ~~Chia~~,  
1963 5000 ft el. Mexico  
March 11

Ice on shallow water,  $30^{\circ}\text{F}$ . at  
7:30 a.m. cold wind all day  $62^{\circ}\text{F}$  at 1 p.m.  
Took long hike to the west and  
north. There are a number of pools  
and wet areas through this portion  
of the sacaton flats.

Bird population about the same  
except for the following:

Red-shafted flickers increased. saw  
one group of nine this a.m.  
Diaz Ducks saw 14 in one flock.  
Mallard hen with the 14 Diaz ducks  
Killdeer increased. saw one group  
of 20 in a wet area

Shorebirds - one group of 7 flushed  
from shallow water area. not sure  
of identity - not able to collect a specimen.  
Painted Redstart - first seen - collected  
Myrtle & or Audubon warblers are  
increasing.

Brewer Sparrows still abundant  
Wilson Snipe - saw 25





# Journal

20

E. Borell Ojo Laguna, Chihuahua,  
963 5000 ft. El. Mexico.

March 12

Cold last night, ice on shallow  
water 30° at 8 a.m. 72° at 1 p.m.

Light wind in afternoon

Took long walk past ponds  
near camp and on to the big  
lake.

The big lake (about 2 mi. east of  
camp to edge of water) is extremely  
salty. In some places large salt  
crystals have formed. Also it is  
very shallow.

Birds seen

Green-winged Teal - 15 on pond  
near camp.

Deer Ducks - 12 on pond near camp.

Longspur, Chickadee, collared - 100 collected 2.

These birds have been present since  
my first trip to the marsh but I  
did not record them because I was  
not certain of identity. They fly in  
large, compact flocks and are not  
easily approached. They inhabit the  
drier grasslands just east of the  
marshy areas

over



# Journal

21

E Borel  
963

Ojo Sajuma, Chihuahua, Mexico  
March 12 (continued)  
~~Least~~  
~~western~~? Sandpipers - 30 seen  
around the big lake and in wet  
areas nearer camp. They could have  
been around previously but I did  
not see any.

Snowy Plover 1 - collected in shallow  
water of the big lake. It was with  
western? sandpipers.

Pipit - saw about 15, collected 1.

Coot - saw one on same pond  
where one was collected on Mar 6.

Crane - Mr. Gutierrez told me that  
cranes stop in the flats around  
the lake. To-day I observed tracks  
and droppings of cranes and picked  
up one crane feather.

Snow Goose - Mr. Gutierrez reports  
that white geese stop around the  
lake. I have found no proof.



# Journal

22

& Bodall Ojo Saguna, Chihuahua, 5000 ft  
Mexico.

March 13

Took a short trip to the  
marshes and ponds north of camp.  
It was cloudy and warmer last  
night and today  $48^{\circ}$  at 7 a.m.,  $72^{\circ}$  at 3 p.m.  
Willows and cottonwoods beginning  
to show some green leaves. Mesquits  
& catclaws show ~~no~~ sign of life.

Birds recorded

Scalped quail - flock of 40 one mile  
north of camp.

Gray Ducks - 9 in one flock two other  
pairs, when pairs are flushed from  
small potholes the hen quacks loudly  
while the male gives low grating notes  
as does the mallard drake.

Coot - another coot on the same  
pond on which one was collected.

Accipiter, one accipiter ( $\sigma$  cooper or  
 $\sigma$  sharpshinned) observed but not  
collected

Longspur - one flock of 1 to 2 hundred.



E. Boll <sup>Mexico</sup> Ojo Saguna, Chihuahua, 5000 ft  
 1963 March 13  
 cold last night ( $40^{\circ}$  at 7 a.m.) and  
 cool but sunny all day  $68^{\circ}$  at 3 p.m.  
 light wind all day.

most of the cottonwoods are  
 coming into leaf - most willows  
 are not. Catclaw & mesquite still  
 dormant.

very little nuptial activity among  
 birds and almost no singing.  
 Occasionally we hear a dove cooing,  
 the cooing of a roadrunner or a  
 call from a meadowlark.

Birds seen -

Very little change from previous  
 recordings.

Brewer Sparrows are still here  
 in great numbers. They are in the  
 marsh, in the brush, in dryland  
 grass, on the ground and even  
 high in large cottonwoods. This  
 makes the collecting of other small  
 sparrows difficult.

Wilson Snipe still here  
 in usual numbers.

Cinnamon? ~~Teal~~ <sup>five</sup> on one  
 pond - one collected.





# Journal

24

E. C. Boll Ojo Saguna, Chihuahua, Mexico

963

March 14

Cold and clear last night -  $26^{\circ}$  at 7 am.

Bat - last evening saw the second bat that we have seen. It was a small one that looked like Pipistrellus or small myotis. It was alone.

Returning Blackbird - This morning I saw a flock of 20 redwings - the first flock so far. At sunset there were approx. 1000 redwings going to roost in the bullrushes near one of the Ojos. Most of them were ♀, the ♂ were singing.

Little Brown Crane - saw tracks and droppings in an open wet area. They were probably 2 or 3 weeks old.



# Journal

25

C. Borell Ojo Sajuma, Chihuahua, 5000 ft  
1963 Mexico.

Cold & windy.

Redwing blackbirds - to my surprise there was not one redwing in the area where there were 100 last evening. The flock I saw last evening apparently was a migrating flock - unfortunately I did not take any specimens.

Ravens - saw a group of 7 - the most I have seen so far

Diary Ducks - saw a group of 9 and a pair by themselves.

Grackle, one ♀ in cottonwoods, the first seen here.

went to Chihuahua in the pm to get mail & provisions - extremely windy in Chihuahua.



to Borell Ojo Sajuma, Chihuahua, 5000  
ft. el. Mexico.

March 16.

Returned from Chihuahua at  
4 P.M. — did not go to the field  
\* Elevation — James Christman told  
me that there was some  
uncertainty regarding the elevation of  
this camp. I checked my altimeter  
on leaving camp and on reaching  
Chihuahua  $1\frac{1}{2}$  hrs. later and again  
on our return, when we left  
Chihuahua and when we reached  
camp. Going to Chihuahua our altimeter  
registered a drop ~~of~~ about 350 feet and on the  
return a gain of about the same  
amount. Our A.A.A. barometer gives  
the altitude of Chihuahua as  
4593. If we add 350 feet to that  
we get a figure (altitude) of approx. 5000  
ft. My altimeter seems to be sometimes  
too much but difficult to read closer than  
100 feet.

Later  
observations lead  
— to believe  
that my altimeter  
is too much  
but trust it

16. A.B.

Trees in leaf and bird singing  
in Chihuahua makes it appear  
that Chihuahua is considerably lower  
than Ojo Sajuma but that  
may be due to the fact <sup>we</sup>

\* see over

x that Ojo Sajuma is in a valley that catches and holds the cold air from the surrounding mts.

Mar 26  
\* Mr. Baldwin told me that according to the Mexican Geological Survey the altitude at Chihuahua is 4633.69 ft.

R & Bodd Ojo Saguna, Chihuahua, 5000  
ft. el. Mexico  
March 17

cold and windy, wind very strong  
in P.M. Temp at 3 P.M.  $\pm 68^{\circ}$

went to the Saguna ponds near  
camp and also to the big lake.

Redwing blackbirds - none present  
see note for Mar 14 (P-24)

Wilson Snipe - still present in  
usual numbers.

Ring-necked Pheasant - 10 in one flock, 3 in <sup>another</sup> r.

Green winged Teal - Flock of 8 on  
small pond near camp. Took two -  
both were thin, ~~and~~ small.

Noted no other change in  
bird population in marsh or  
around ponds near camp.

Skunk - Saw one small lizard  
run under a rock pile near camp  
- the first this season





E. B. Borell Ojo Saguna, Chihuahua, El 5000 ft.  
Mexico

March 17 Continued  
waded almost across the big lake. The lake (water) now covers several hundred and perhaps over 1000 acres — the surprising thing is that I did not find any water over 3 inches deep. It is a very shallow playa that will likely dry up shortly. The water is muddy and the bottom is slippery. Birds seen around the playa. Shovellers, about 200 shovellers were actively feeding. Apparently some seeds must be washed or blown into the playa. It doesn't appear that any food could be produced in the lake. I took a ♂ & ♀. Both were this. The pair weighed  $1\frac{3}{4}$  lbs. Ova not developed in ♀. No shovellers or other ducks were on the lake on Mar 12. Bluewing Teal — one collected — no others.

Dowitcher one (non-breeding plumage) collected from a group of 4, another group of 5 was observed.



## Journal

6 Bozell Ojo Saguna, Chihuahua, @ 5000 ft.  
 763 Mexico  
March 17 continued

✓ Blue Heron, one observed sitting (standing) on a small hummock in the lake. I was able to approach within 100 yards and examine it with binoculars.

✓ Snow Goose, about 80 in a compact flock standing in the shallow water. I flushed them three times but was not able to get closer than 200 yards. They were observed standing and in flight with binoculars. There appeared to be no blue geese or Canada geese on the lake.

✓ Long billed Curlew, one observed with binoculars at 100 yards but I was not able to collect it.

✓ Gull <sup>sp?</sup> - one smallish, largely white gull seen flying over the lake.



P. E. Borell Ojo Saguna, Chihuahua,  
1963 5000 ft. el. Mexico.

March 18

Cool and windy. Prepared specimens collected yesterday and the Virginia Rail trapped this a.m. made a trip to the pools near camp this morning and again this evening.

Observations:

Jackrabbit, Californicus type, one (the first and only rabbit seen here) was seen at dusk running through the brush near camp.

Grackles, boat tailed, a pair (the first ♂ seen) were here all day among the cottonwoods. The ♂ made a few calls but its nuptial activity was not nearly so advanced as grackles observed in Chihuahua during the past three weeks.

Butterfly (mourning cloak) one near camp - first this year



E Borell  
963

Ojo Laguna, Chihuahua,  
5000 ft el. Mexico  
March 19. It is surprising  
how cold it remains at this  
date. Again there was ice on  
the shallow ponds. The thermometers  
said  $26^{\circ}$  at 7 am and only  $50^{\circ}$   
at noon.

There is considerable difference  
in the leaf development of <sup>the</sup> cottonwoods.  
On ~~some~~ the leaves are  $\frac{1}{3}$  to  $\frac{1}{2}$   
developed, ~~on~~ others are still in the  
catkin stage. The willows show the  
same difference in <sup>leaf</sup> development but  
but are less advanced than the  
cottonwoods. The mesquite & catclaw  
are still completely dormant - ~~on~~  
outward appearance.

Made a trip to the nearby ponds  
and also to the big lake.

at the pools near camp saw  
10 green-winged teal, 6 Gray ducks  
and 4 blue-wing or cinnamon  
teal. The latter all ♀.

Brewer Sparrows & Wilson Snipe  
still present in usual numbers.

Roadrunner, observed one at close <sup>view</sup>  
range, its streaked breast indicated Californianus.



Blue heron one seen near  
the largest pool in morning  
and again in the evening

Willet - two seen and heard at  
small wet area near camp. was  
not able to collect them.

6 Borell Ojo Saguna, Chihuahua, 5000 ft  
 9 6 3 Mexico  
 March 19 continued  
 at the big lake.  
Shoveller - counted 48 - saw no  
 other ducks  
Snow geese - none  
Least Sandpiper - 100 - no other shore birds.  
Pipit - 6  
Horned Lark none in the area  
 where several were seen on Mar 12

Lexus gillardi, one I jumped from  
 its form and taken near the big  
 lake. I hunted the area but could not  
 find its mate (if one were present).  
 There is more jackrabbit sign in  
 the sparse salt grass near the lake  
 than ~~at~~ any other habitat I have visited

Butterfly (<sup>monarch</sup> ~~mourning cloak~~) saw  
 the first one near camp.  
 also two mourning cloak  
 butterflies.



## Journal

6 Borell Ojo Saguna, Chilina hua, 5000 ft. el.  
 963 March 20,

Again ice on the shallow water  
 24° at 7:30 am. 58° at noon  
 Bright and sunny, warm in the sun &  
 out of the wind.

Made a trap this morning and  
 again this evening around the ponds  
 and shallow marshes.

New birds

Gnatcatcher (Blue-gray?) — 2

Barn Owl, one in large cottonwood.

Yellow-headed Blackbird — 1 ♂

✓ Crow, flew from a willow tree at  
 the edge of the marsh. It did not look  
 or fly like a raven.

Redwing Blackbird — a flock of about 100  
 came to the marsh this evening. all  
 seemed to be ♀ or im ♂. I could see  
 no ♂ in the flock.

Yellowthroat — 1 ♂

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Brewer Sparrows, Wilson snipes

Vesper Sparrows, Lincoln sparrows

and white-crowned Sparrows are still  
 here in their usual numbers.

Saw no herps except a Rana caught  
 in a trap set for rails.



# Journal

34

E Borell  
968

Ojo Saguma, Chihuahua, 5000 ft. Mexico  
March 21  
Trip to Santa Clara & Los  
Jugilles (mexican stone) about  
50 miles each way from Parrita.  
over the roughest road I have ever traveled.  
In the worst section we made 15 miles in  
one hour of steady driving.

Santa Clara creek has considerable  
water, There is not a fast flow but  
the supply is continuous and there are  
many pools.

Birds observed near the old camp  
site on the <sup>Rio</sup> Santa Clara.

✓ Belted Kingfisher - 2

Spotted Sandpiper - 2

Greater yellowlegs - 3

Dowitcher - 1

Mallard - 5 (one ♀ collected)

Green-winged Teal - 4 (on small pool at <sup>river</sup>ford)

Black Phoebe - 3

Vermilion flycatcher - 2

Wilson snipe - 1



O. Boell Ojo Saguna, Chihuahua, Mexico.  
 1963 Trip to Santa Clara (Continued.)  
 Birds seen in vicinity of Campo Menmitos.  
 Crows - #3 in newly plowed field  
 Chestnut Collared Longspur - 200-300 <sup>in compact flocks</sup> around  
 Horned Larks 200-300 in loose flocks  
 in grassland  
 ✓ Scaup (Greater or Lesser?) one on Presa  
 among live oaks.  
 Greater yellowlegs - 1 at Presa

Enroute between Parrita and  
 Campo Menmito. Birds seen -  
 Jays - many  
 Brown Towhees - many  
 Juncos - many  
 Doves - many -  
 White-wing Doves - 6  
 Pyrrhuloxia - 2  
 Black Phoebe - 1  
 Raven - 6  
 Thrasher? - 1

---

Rock Squirrel - 1  
 Chipmunk - 10





## Journal

W. B. Boull  
1963

Ojo Saguna, Chihuahua, Mexico  
March 22

Cold windy day -  $40^{\circ}$  F. at 8 am -  $58^{\circ}$  F. at 1 P.M.

Walked around the ponds near camp and made a trip to the big lake.

Observations near camp.

\*  
see over

Crows, groups of 2, 3, and 15 flying over and lighting in corn field.

Thrasher? - 1

Spotted Towhee - 1

Ducks = none

Grackle - pair

Yellow-headed Blackbird - 1 ♂

Longspur, Chestnut-collared - flock of 30

Brewer Sparrow - still abundant.

Wilson Snipe - usual numbers.

Observations at the lake

✓ Gadwall - 1 ♂ alone

Mallard ♂ with pair of spoonbills

Spoonbill - 3 in same area where there were about 200 on Mar 17 and 48 on Mar 19. Shot one ♂ - thin, testes small 2 x 8 mm.

Least sandpiper - 100

Snowy Plover - 6

Crane (little brown or sandhill?) Recent tracks of several and tracks of 3 made yesterday or today.

Pipit - 6

Horned Lark - 3

caught ♀ marshhawk in trap set for  
raccoon. Ova small, largest 1x1 m.m. stone  
contained hair of cottonrat.

# Journal

37

E Borell Ojo de Laguna, Chihuahua, 5000 ft. alt. Mexico  
1963 March 23

Cool cloudy day, 40° at 7 a.m. 58° at ~~noon~~ <sup>4 p.m.</sup>

Diaz ducks - hiked to all of the  
famous Diaz duck pools this a.m.  
and to three of them again this eve.  
Saw no Diaz duck or any other ducks.  
Snow Geese - six flew over camp  
at 6 p.m. and went down on the  
big lake

Crane (Little brown) heard cranes  
at 9 this morning over the lake.

Grackles - saw two collected one.

Kinglet (Ruby cr) saw 4 in cottonwood

Crows - none

Wilson Snipe - usual number

Brewer Sparrow - many

White Cr. " "

Redwing blackbird - 2 males - little singing

Rattlesnake - saw the first one - it  
was in a little patch in the  
sacaton grass a few feet from  
the mesquite near one of the pools.

*Journal of Management Studies*, 19(1), 67-80.

Roll  
1963

Ojo Laguna, Chihuahua, 5000 ft. Mexico  
March 24

very hard wind last night.

Beautiful morning - hard wind in P.M.

Observation -

Virginia Rail - caught another one  
in a rat trap

Ducks - saw or heard none - earlier  
this week the Diary ducks were doing  
a lot of quacking

Wilson snipe - present in all wet areas

Brewer Sparrows - fewer

Kinglets (Ruby cr) - several

White cr. Sparrow - about the same

Snow Goose - a flock of about a  
hundred rose from the big lake and  
flew directly west about 7 P.M. They flew  
over me as I was setting a raccoon trap  
and I was able to collect one.

Saw no birds mammals or herps  
not previously recorded.



# Journal

31

E. Borell Ojodaguna, Chihuahua, Mexico.  
1963 March 25

Prepared the goose, rail and bat collected yesterday then went to Chihuahua.

The only unusual observation was about 1000 snow geese that flew into the big lake about 9 am.

March 26 In Chihuahua.  
Went to Chihuahua Lake (8 mi. W. of city) with the Baldwins. Saw the following waterbirds

Gadwall - 30

Spoonbill - 10

Scamp (greater-lesser?) - 6

Coot - 5

In Chihuahua saw Inca doves and Grackles carrying nest material.

Black locust in bloom and mesquite about  $\frac{1}{4}$  in leaf.

March 27 returned from Chihuahua about 3 P.M.

A flock of about 40 snow geese left the lake about 6:30 P.M. and flew directly west.





1963

E. Borell

Ojo Lagunas, Chihuahua Mexico.

March 28

Made a trip around the ponds near camp then drove to the big lake.

Near camp saw the following

Diaz ducks - 11✓ Pintail drake - 1✓ Green-tailed towhee - 1Pyrrhuloxia - 1at the big lake saw the following  
birds of interest✓ Anser - 50 not present on previous  
snow geese - 80 visits to the big lake.Gulls ? - 6Cowbirds, long billed, - 1Snowy plover - 5Shoveler - 30Least Sand piper - 20



## Journal

1963

E. Borell  
 March 29 Ojo Saguna, Chihuahua, 5000 ft. Mexico  
 Much warmer - spring may be on its way. Cottonwood are about half way to full leaf, willows are just coming into leaf. Catclaw still dormant, mesquits mostly dormant. Some greas showing on several kinds of grass including sacaton, more bird singing than ever before.  
 Bird observations

- ✓ Palm warbler, three feeding in large cottonwood, 1 collected, others later in day
- 4H Towhee - green tailed - saw 6 collected 1
- Grackle, boat tailed 1 ♀ 4 ♂, males in song
- Nighthawk, Ruby Cr., - 6 in cotton woods some <sup>singing</sup>
- Redwing blackbirds - 4 males singing
- Wilson Snipe - common in wet areas
- Brewer Sparrow - many
- White Cr. Sparrow - many

Herps - saw the trails of two snakes

Saw (collected) first fufu.

" ~~two~~ lizards up?



1963

A. G. Borell Ojo de Saguna, Chihuahua, 5000 ft Mexico  
March 30 -

Cool cloudy  $46^{\circ}$  at 7a,  $68^{\circ}$  at 1 P.M.

Took a trap around the ponds and around the old adobe buildings looking for traps.

Wing ducks - a group of 3 & a group of 2.

No other ducks

Geese, snow a flock of 30 flew SW. from the big lake at 7:30 this am.

Barn Swallows - 8 over the marsh - first seen this year.

Palm warbler - none seen in trees where present yesterday

Bewick wren - 2 in big cottonwoods - both collected

Hawks - 7 males.

March 31

Temp 7am =  $46^{\circ}$ . Temp 3 P.M. =  $68^{\circ}$

Trap around the ponds near camp and to the big lake.

Wing ducks - 3

Shovelers - 50

Anas - 100, one collected

Curlew - 54; one collected

Gull - ring-billed? - 8, one collected

Virginia Rail - That one taken in trap.

Blue heron - one on big lake

Geese - none.



## Journal

1963

C. E. Bozell Ojo Sajuma, Chi huahua, 5000 ft, Mexico

April 1st

Temp. 56° at 8:30 a.m. 76 at 3 p.m.

Took a trip to the ponds and to the brush country above camp.

Thrashers - 3, collected one.Green-tailed Towhees - 8Wilson Snipe - present in wet place in usual <sup>number</sup>.Brewer Sparrows - abundant.Audubon warblers - none. apparently they left here about March 25. (see April 6 journal notes)Palm warbler - none. They were present in the cottonwoods over camp only on March 29.Barn Swallow - 7 - first seen ~~March 30~~ <sup>March 30</sup>.

April 2

Temp 56° at 6:30, 76 at 1 p.m. very hard wind last night, some wind today

Made a trip around the ponds at the big <sup>playa</sup> lake.Green-winged Teal - 7 on small pond, 3 taken (♂ ♀ ♀) all were without fat. gonads small.Cliff Swallow - 5 first seenWestern Sandpiper - 4 to 500 - were not present on March 31Snow geese - 15 Ancoet - 24Blue Heron - 2 Greater yellowlegs - 2Least sandpiper - 50. Mallard - 8 ♀Shoveler - 30. Curlew - none





# Journal

44

1963

E. Boll Ojo Saguna, Chihuahua, 5000 ft. Mexico

Apr. 3

Cool, no wind 37° at 6.30 am.

Trip around the ponds and through the brush country to the west.

Green-tailed Towhees widespread - saw 25 - 30

Thrasher (crissal?) - 2

Owl (<sup>large</sup> ~~short~~ eared?) - 1

Grackles - 72

went to Chihuahua in p.m.

Apr 4 Returned from Chihuahua at 2 p.m.

Trip around the ponds

Dowitcher - 4 in non-breeding plumage ♂ & ♀ shot - 7 gonads - small

Kingbird (Cassin?) - 2 first big birds seen

Apr 5 - Trip around the ponds and to the big playa lake.

Diag ducks - 6

Green-winged Teal - 4

Mallard ♀ - 1

Snow goose - Three flocks of about 60, 30 & 30 flying north (high) between 10 and 11 am. none stopped at the playa lake.

Least sandpiper - 10, Snowy plover - 1

The big playa lake is now almost dry. It is now an extensive wet mud flat with water



1963

E. Borell Ojo Saguna, Chihuahua, 5000 ft el. Mexico.  
 Apr 5 - continued  
 only in a few horse tracks and in  
 one channel that enters the lake on the east side.  
 Fresh tracks indicated that <sup>mostly shovellers</sup> ~~one~~ raccoon  
 one skunk and many ducks, avocets  
<sup>gulls</sup> and curlews had foraged for  
 salamanders, insects and other food  
 in the rapidly disappearing water.  
Shovellers feeding in the extremely shallow  
 water left the marks of their breasts  
 and toes in the slimy mud. These tracks  
 or paths would <sup>easily</sup> pass for turtle paths - I  
 saw no evidence of turtles. The raccoon  
 had gone far out into the playa - at  
 least  $\frac{1}{2}$  mile from the nearest grass cover.  
 Tracks of several salamanders ended  
 abruptly where they <sup>were</sup> intercepted by the tracks  
 of the raccoon. The surviving salamanders  
 mostly adults were wandering aimlessly  
 over the mud flats or seeking survival  
 in the horse tracks that held water. At  
 my approach their defense was to  
 lower their heads and to raise and  
 curl their tails. Fortunately for the  
 salamanders last night was cold  
 (38° at 7 am.) and the morning was  
 extremely foggy. Surprisingly



1963  
Bozell

Ojosaguna, 5000 ft. el. Chihuahua Mexico.

Apr. 5 continued  
enough until 9 am. to restrict  
visibility to about 50 yards. The last of  
the fog held on until 11 am. Tracks showed  
that some of the salamanders reached  
the grassland around the lake and  
tracks of two led to the (possible?)  
safety of rodent burrows. There was  
no evidence of toads or turtles or  
large insect larvae in the playa.

Notable by their absence were  
avocets, curlew, western sandpiper, gulls,  
blue-herons, and shorebirds that were  
present on my last visit to the  
playa on April 2.

Discovery of the salamanders in the  
playa may account for the previous  
presence of the blue herons.

Among other food items in the salty  
playa water is a small bivalve. Its  
presence is indicated by undrawn &  
tiny shells. (sample saved).



## Journal

1963

E. Borell

Ojosaguna, Chihuahua, 5000 ft el. Mexico

April 6

Cold last night, 36° at 7 a.m. 70° at 1 P.m.  
Beautiful day - little wind.Trip around the ponds & through the  
brush country west of camp.Song-eared owl - 1 probably same one seen  
on Apr 4.Diaz ducks - 6Mallard ♀ <sup>one</sup> with group of 4 Diaz ducks.Green-winged teal - 3 - shot 2, <sup>32♀</sup> both thin and  
no gonad development.Lucy warbler - 1 - have seen one or two  
each day since Mar 30 but I wasn't  
certain of identification.Audubon warbler - 2 First Bullock'sWhite cr. Sparrow - 100 Oriole arrive inBrewer Sparrow - 300 cottonwood overVegeter " - 50 camp at 5 P.m.Green-tailed towhee - 50Wilson snipe - 8-Snow geese - noneCatclaw still dormant, some mesquites  
showing green, willows about  $\frac{1}{4}$  into leaf,  
cottonwoods about  $\frac{3}{4}$  into leaf, small  
leaf sumac coming into leaf. Sparrows  
no longer feeding on cottonwood catkins.  
Very little bird singing or nuptial antics.





## Journal

1963

W. B. Orell Ojo Saguna, Chihuahua, 5000 ft. el Mexico  
April 7.

Warm day - made a trip to  
Gallego, El Sueco, Ricardo Flores, ~~Magon~~,  
Buena Ventura and Presa El Tintero.

The latter is 37 miles south of Buena-  
ventura over rough road. we spent a  
short time in the morning and again in  
the evening along the Rio Santa Clara  
where the highway crosses it.

The only new bird seen was one  
✓ Inca dove. It was near a house and  
we couldn't collect it. Saw two black  
phoebes near the highway bridge.

Between camp and Gallego saw two  
flocks (about 30 each) of Scaled quail.  
There was no signs of pairing but  
two birds made several passes  
at each other with spread wings.

They are building a new presa  
on the Santa Clara (Rio del Carmen)  
about 4 miles above R.F. Magon.



1963

28 Borell Ojo de agua, 5000 ft. el. Chihuahua, Mex.  
 ul 8 Our warmest day, 46° at 7 am, 82° at 4 P.M.  
 made a trip around the ponds,  
 through the brush and among the alamos.  
 new birds

- ✓ Amer. Bittern - 1 collected
- \* Orange Cr. Warbler - 1 shot but not preserved
- x Solitary Vireo - 1 collected
- ✓ Parula? Warbler 1 collected

White Cr. Sparrow - 3 caught in mouse  
 traps - both sexes represented - gonads not  
 enlarged

Green-tailed Towhees still abundant  
 Yellowthroat collected - Second one seen  
 Vermilion Flycatcher - saw female forming

nest in alamo about 20 ft. from ground  
 Wilson Snipe - still common - flushed 4 from

one small wet area

Snow geese - small flock flying north at 8 P.M.

Brewer Sparrows - still abundant

Vesper " " "

Herps

Killed my second rattlesnake at 6:30  
 P.M. near camp. a small red one.

Legzards still scarce.



1963

2 E. Borell Ojo de Agua, Chihuahua, 5000 ft. el. Mexico.

April 9. 54° + at 7 am. 80° + at noon.

Traps around the ponds, through the brush and among alamos.

collected two new birds - black tailed gratcher & house wren.

Seeing ducks - three groups, 4, 3 & 2. one of the two had a yellowish bill like a female mallard - all the others I have examined with glasses had greenish bills like a male mallard.

No major change in wintering birds, Wilson singer; brewer, white cr., vesper and chipping sparrow still common.

Green tailed towhees still plentiful.

April 10, 11 & 12 In Chihuahua to meet J.G. & Ruth Barneberger, to get provisions and to contact Dr. Lopez (taxidermist) re grizzly bears. Have arranged to see him and to get photographs of grizzly bears that he has killed.

Sage Bunting, several hundred in the edge of Chihuahua. I have seen none in the vicinity of camp which is 60 miles north of camp.

April 14 - hailed this P.M.



1963

E. Borell Ojo Saguna, Chihuahua, 5000 ft. Mexico  
 April 15. Still cool at night but getting warmer during the day.  $44^{\circ}$  at 6:30 am.  $82^{\circ}$  at 1 P.M. Trees are not yet in full leaf and some shrubs like catclaw and some plants of mesquites are just begining to put out leaves. Willows are in full bloom but leaves only about  $\frac{1}{4}$  out. The flowers of willows apparently attract insects and therefore many birds - especially warblers.

Wilson Snipe - 4  
Brewer Sparrow - still abundant  
White Cr. " - 20  
Vesper Sparrow - 4  
Savannah " - 3  
Swamp Sparrow - 4  
Nighthawk - 2 first ~~seen~~ seen  
Bullock Oriole - males present in almost every large tree but no ♀s.  
Kingbirds (cassin western?) - 8  
Ash-throated Flycatcher - 4  
Warbling Vireo - 1  
Wilson Warbler - 20 (most common warbler)  
Audubon " - 5  
Yellowthroat - 2  
Parula?, Laney, Palmer, Virginia seen previously were not seen today





1963

E. Borell Ojo Saguna, Chihuahua, 5000 ft. el. Mexico.

April 15 continued

Diaz ducks 3 ad 2 ad a single. The loud quacking indicated that the single was a ♀ also 2 of the group of 3.

Scaled quail - Two ♂. calling yesterday and again today.

Barn owl a pair are trying to select a small cavity for nesting in the cottonwood over camp. They remained in the tree the last two days and at night screech and utter their characteristic "clipping" mating call.

Boat-tailed Grackle, six ♂. & 3 ♀. appear to be trying to select nesting sites in the cottonwoods around camp. yesterday I saw 14 in one group flying north.

Herps - Snakes and lizards are becoming more in evidence. There are now many snake "tracks" crossing the roads and trails. Today I collected a large king snake and a small horned toad. Lizards have been scarce and very wild but several were seen today. Have seen no garter snakes and only one bufo.



1963

E. Borell

Ojo Saguna, Chihuahua, 5000 ft. h. Mexico.

April 16

Made a trip to Ricardo Flores Magon which is 37 mi. w. of El Suro (or El Gallego) at the intersection of the paved highway and Rio Santa Clara (which in this area seems to be known as Rio del Carmen). We crossed the river then drove up (south) four miles along a dirt road that lays along the dry foothills parallel to the irrigated river valley. Along the river bank and the main irrigation ditches are rows of large cottonwoods and willows. The willows are now heavily infested with Tent Caterpillars. Most of the valley (about  $\frac{1}{2}$  mi. wide) has been cleared and is in intensive cultivation. The land is now being plowed and seeded. The dry hillside are covered with grass, mesquite, cholla, prickly pear, little-leaf sumac, catclaw and a few other shrubs. Including some decent willow (*Chilopsis*) in the draws. There is a good flow (possibly 10 S.F.) of water in the Santa Clara but most of it is being taken out above and around Magon.



## Journal

1963

E. Boell Ojo Laguna, Chihuahua 5000 ft. Mex.  
 April 16 continued.

According to our altimeter the river  
 at that point is about the same  
 elevation as at Ojo Laguna (5000 ft.)  
 However the vegetation is more  
 advanced. Mesquite is in full bloom  
 - none of the mesquite is in bloom around  
 Ojo Laguna.

Birds seen

Gray ducks - two along the Rio

Greater yellowlegs - 1 along the Rio.

Wilson and Audubon warblers seen in  
 cottonwoods & willows.

Curve-billed Thrashers - much more  
 common than around Ojo Laguna.

Cactus wren<sup>2 linnetts</sup> - more common than around  
 Ojo Laguna.

Brewer Sparrows, green-tailed towhee,  
 white cr. Sparrow - about the same  
 numbers as at Ojo Laguna.

Scaled quail - 1 flock of 5. one (3?) dashing  
 about with spread wings.

White-winged dove - two (not together)

Hummingbird(?) - 1 - first seen.

Mourning doves - abundant - in pairs  
 or small groups.



1963

C. Boell Ojosajima, Chihuahua, 5000 ft. H. Mexico  
 April 16 Continued.

Cooper Hawk - 1

Swinson Hawk - two on fence posts  
 west of El Sueco.

Pipit - 1 at edge of Rio.

Sage Bunting - 300-400 along road side between  
 Ojosajima & El Sueco. none at Ojosajima so far.

Mammals - 4 mi. S Ricardo Flores Magón

Cottontail - 1

Calif. Jackrabbit - 2

Woodrat - many nests among cholla

Fish, three kinds (including two kinds  
 of minnow) seined from pool  
 in river at Ricardo Flores Magón.

Reps - Saw two gopher snakes on  
 on yellow (red) race between El  
 Sueco and R. Flores Magón. Preserved the  
 latter. Four miles up the Rio Santa Clara  
 south from R. F. Magón collected a  
 striped racer? Saw only one  
 small lizard





# Journal

55

1963

C. B. Borell Ojo Saguna, Chihuahua, 5005 ft. Mexico  
April 17. 54° F. at 6:30 a.m., 78° F  
at 1 P.M. A terrific wind has  
blown since yesterday morning.  
It blew with a vengeance and both  
days has resulted in bad dust  
storms.

Made a trip around the ponds  
and into the montes.

Drain ducks - saw groups of 5, 3, 2 & 1.  
collected one ♀ from the group of 5. The  
group of 3 consists of a drake & two hens.  
What appears to be this same group of  
3 has been seen repeatedly since Mar. 30  
and quacking indicated that the lone  
duck was a ♀. The ♂ can be recognized  
by their low grating quack like that of  
a drake mallard.

Wilson Snipe - only one in the favored  
haunts where I usually flush from 4 to 10.

Brewer sparrow - still abundant.

White Cr., Chipping, Vesper and  
seemann sparrow still present.

Warblers - only Wilson & Virginia &  
Audubon seen today.

Say Pheasant nest in cavity in side  
of old well, 10 ft from surface - 3 eggs  
Tree Swallow, one collected from a \*over

a flight of several hundred swallows  
(Tree, Barn, Cliff & Rough-wing) that  
were foraging over a marshy area.

1963

R. C. Boell Ojo Sajuma, 5000 ft. alt. Chihuahua Mexico.  
April 18

Still cool,  $48^{\circ}$  at 7 a.m.,  $80^{\circ}$  at noon &  
 $78^{\circ}$  at 4 p.m. Very heavy wind all afternoon.  
Traps around the ponds, willows,  
cottonwoods and the montes.

Major change in bird population  
— no wilson snipe and no  
audubon warblers seen.  
Pileolated & yellowthroats were seen.  
White-winged dove — collected first one  
seen here.

Scaled quail. Two coveys. Birds appear  
to be still in coveys but the coveys  
are looser, a few seen to be  
in pairs associated with the  
coveys. no male calling.

A second nest of Vermillion Flycatcher  
(in the making) observed in a large  
alamo 20 feet from the ground.

Mourning Dove — some cooing  
early in the morning and a few  
sustained flights seen.



# Journal

1963

E. Boell

Ojo Saguna Chihuahua, 5000 ft. Mexico

April 19

35° F at 6:30 am. went to Chihuahua for mail & supplies

April 20 In Chihuahua

On April 10 I met a Sr. Manuel Ojeda (phone 23064) at the Pemex station <sup>corner</sup> on Blas Ciano de los Rios and Universidad. He took me to a taxidermist and guide Alejandro Lopez Escalera, address Pacheco 2205 phone 25097.

Mr Ojeda speaks good English, is President of the Apple Growers Assoc., has large acreages of apples in the mts. west of Chihuahua and is apparently wealthy. He ~~is~~ is apparently wealthy, knows the mts. and state of Chihuahua and offered to assist us whenever needed.

To-day (Apr 20) I again contacted Sr. Lopez with Mrs Baldwin as interpreter. Lopez, who has been (and still is) a professional guide says that he (probably him & his partner) killed 15 grizzlies between 1928 & 1956.

\* In 1954 he killed a ♀ & captured a cub which he kept in captivity until 1956 when he sold



1963

R & Boll Ojo Sajana, Chihuahua, 5000 ft Mexico  
April 20 - continued

\* To D. Pablo (Buch) Romero, Ford Agency, Mexico City. Lopez believes that this bear is now in the zoo in Mexico City <sup>\*over</sup>. In 1960 Lopez made a trip into the Sierra del Verde. On that trip he saw the remains of one large bear and two cubs that had apparently been killed by poison. The remains were near the carcass of a dead cow - apparently killed by the grizzlies (and the remains poisoned by the vaqueros). On that trip Lopez says that he saw the tracks of a grizzly that measured 16 inches. Lopez believes that since grizzlies have been protected no professional guides are hunting or taking hunters to hunt grizzlies. However he thinks that rancheros & vaqueros shoot or poison bears as opportunity offers. He claims that vaqueros frequently carry poisoned sweet pellets (or balls) when traveling in bear country and drop them when bear sign is encountered.



\* This is the bear referred to  
by Starbuck Leopold on page 420  
of his book - wildlife of Mexico.

1963

E. Borell Ojosajuma, Chihuahua, 5000 ft. Mexico.

April 20 - Continued.

Lopez has photographs of several gizzlys and black bears (and wolves) killed in and around the Sierra del Nido. I obtained from him ~~three~~ 8x10 glossy prints of three of his best photos of gizzlys (100 pesos). Also I obtained from him data on each of the prints. Lopez believes that there are still gizzlys in the Sierra del Nido as well as in surrounding ranges to the north, south and west.

Lopez claims that he knows the mountains and people of Chihuahua and is anxious to be employed as a guide if M.V.Z. people want gather more information on gizzlys.

Lopez says that formerly there were gizzlys in the Sierra Perico (hills) just north of Chihuahua.



## Journal

1963

6 Borrell Ojo-Sajuma, Chihuahua, 5000 ft el.

April 21

Returned to camp from Chihuahua at 10 am.

While in Chihuahua (Apr 19-21) made the following bird observations.

yellow-headed black bird and cowbirds abundant 50 of each present in large Alamo at the Santa Rita motel. Only one yellowthroat and no cowbirds have been seen at Ojo Sajuma.

male & female Grackles were observed carrying nest material in the Italian cypress trees at the Santa Rita motel. No such activity seen at Ojo Sajuma.

at a large stock tank beside the highway 40 miles north of Chihuahua (west side of highway) the following birds were seen

Ring-necked ducks - 18

Shovelers - 6

Scaup - 2

Kingfisher - 1

Mourning doves - 100

Evening at ojo near camp

Wilson's Snipe - 2 - Chipping Sparrow - 3

Barn Swallows - many

Tree Swallow 1, Cliff Swallow - 2



Journal

61

1963

E. Boll Ojo de Fagua, 5000 ft el. Mex. W.

April 22 Cool cloudy day 50° at 6:30 am, 60° at 11 a.  
no new records

April 23

Blue winged teal } one of each together  
shoulder } on small is.

Cottontail - 1

Jackrabbit - 2

April 24

Made a long trip around Ojo,  
wet areas, Alamos & through the  
brush.

Deer ducks - Three groups of 5, 2 & 2  
There were at least seven ducks.  
The second pair seen may have  
been repeats.

Other ducks - none seen

Wilson snipe - none - none yesterday

Killdeer - 6 (3 pairs)

Ravens - 10 - six were sitting on  
fence posts in a strong wind  
which ruffled their throat feathers -  
white was conspicuous.

Barn owls - pair are nesting  
in cottonwood above camp.

They screeched and made their  
chirping noises frequently  
during the night.



Journal

62

1963

26 Bull <sup>Mexico</sup> Ojo la juna, Chihuahua, 5000 ft. h.  
Apr. 24 continued  
Bullock Oriole, Males and occasionally  
F. are present in every large alamo.  
There is much chasing, chattering  
and singing among the ♂.  
Empidonax - several seen. They  
have been scarce or absent most  
days previously.  
Ash-throated Flycatcher - 10 - constantly  
chattering & chasing.  
Say Phoebe - 8 - a second nest  
with three eggs found on window  
sill of old adobe  
Kingbird (Cassin or western) - 10  
much chattering & chasing  
Vermilion Flycatcher - 8 mostly  
paired & apparently nesting -  
Marsh Hawk - 3 Sparrow Hawk - 2  
Red-tailed Hawk - 1  
Swainson Hawk - 1  
Accipiter (possibly Cooper) - 1  
Wilson Warbler ♂ present in  
almost every willow & alamo  
Audubon Warbler - 3 ♂  
Yellowthroat - 1  
no other warblers





# Journal

63

1963

E. Boell

Ojo de Laguna, Chihuahua, 5000 ft. Mexico  
April 24 - Continued

White Cr. Sparrow - 10 Eight  
observation with binoculars indicated  
both races still present - number  
much reduced over last week.

Vesper Sparrow - 1 - number  
reduced

Brewer Sparrow - 30 - number  
reduced

Chipping Sparrows - none - apparently  
have left since April 21

Lincoln Sparrow - 2

Savannah Sparrow - 2

Horned Lark - 1

✓ Western Tanager - 1

Roadrunner - 1

✓ Cruzian Thrasher - 1

Pyrrhuloxia - 6 - apparently  
not fully paired.

Brown Towhee - 4 - apparently  
fully paired

Bank Swallow - 100+ or - foraging  
over wet area - 8 or 10 trying to  
nest in the Gutierrez garage

Tree Swallow - 2

Rough winged Swallow - 5



1963

E. Bodell Ojizayma, Chihuahua, 5000 ft. Mex. April 24 - continued  
Cliff Swallow - 1

Grackle - 2 ♂ Having seen as many as 14 ♂ & ♀ previously the presence of only 2 ♂ for the past several days indicates that some of the individuals here previously were migratory - or seeking favorable nesting sites. No nesting activity has been seen here to date.

Brewer Blackbird - 6 or 8 are still present but no nesting - Several flocks of 20 to 50 were seen during the past two weeks.

Redwing Blackbird, a few ♂ are singing in the bullrush area. The flocks of 50 - 200 seen during the past two weeks are not present.

Virginia Rail - one seen among bullrushes.

Pipit - 1

Flicker - 0

Woodpecker - ladderback - 3

Acorn Storing Woodpecker - 1



## Journal

1963

R E Boell Ojodagua, Chihuahua, 5000 ft. & Mexico  
 Apr 24  
 returned  
 Turkey Buzzard - 1  
 Scaled Quail - Two coveys of about  
 30 each. There is some evidence  
 of pairing but not much calling.  
 Ruby Cr. Kinglet - 6  
 Night hawk - none seen since the  
 two on Apr 15.

Warbling Vireo - 2

Solitary Vireo - 1

Verdin - 1

Cactus wren - 3

Mourning Dove - 8 - Have seen  
 no nests but there is considerable  
 cooing, some nuptial flights and  
 the birds are mostly in pairs.

Rept - none except the turtle  
 in the Ojos and a very few lizards.



1963

E. B. Borell  
April 25Ojo Saguna, Chihuahua, Mexico.  
Sunny cool & cloudy. 56° at 7 am.Made a short trip among the  
alamos and the mesquites then  
broke camp and drove (with  
trailer) to

## Bird notes

Hermit Thrush - 1 collected (just seen)  
Cowbird - 4♂ 1 collected. were common in  
Chihuahua on Apr 2. These are the first  
seen here.No other changes in Bird population  
over yesterday.Spring is well advanced but  
summer definitely is not yet here.  
Mesquite and Catclaw are now in  
blossom. ~~and~~ Mesquite is fairly well  
in leaf and some plants have  
new shoots 6 to 8 inches long.  
Catclaw is about 1/4 in leaf. Sacaton  
grass in the moist sites, now has  
considerable green. The country  
is dry - there have been only  
a few drops of rain since we  
came on Feb. 27.It is with regret that  
we leave our camping spot





1963

Bordall Ojotsayana Chihuahua, Mexico.  
under the cottonwoods. Sr. & Sra  
Gutierrez (Cresencia) have been  
most cordial and helpful. They  
are fine people. We will  
look forward to returning to the  
delightful spot as opportunity  
presents.



A. Borall

1964

Catalogue

\* 6250-6325



# Catalogue

1

Borell

1964

Ojo Saguna, 5200 ft el. Chihuahua Mex.

April 21

- ✓ 6250 ~~Summer~~ Heptax tanager ♀ ova minute  
6251 Solitary vireo wt 20.5g. ♂ testes 3x1 m.  
6252 Wood Pewee wt 12.2 g. ♂ testes 1x1 m.  
6253 Mac Gillywary warbler wt 10.1 g. testes 1x1 m ♂  
✓ 6254 Inca Dove wt, 41.8 ♂  
6255 Western Flycatcher wt. 12.2 g ♂ testes minute  
6256 Hermit Thrush 18.7g very thin, ♀ ova minute

April 23

- 6257 Redwing wt 63.3g testes 5x4 m  
6258 " wt 43.2g ova minute  
6259 " wt 42.7g. ova minute  
6260 Wilson's warbler ♂ testes minute  
6261 Lincoln Sparrow wt. 14g. ♀ ova minute  
6262 Nighthawk (lesser) wt. 48.6g. testes 5x4 m.  
✓ 6263 Swainson Hawk wt. 1017g. ♀ ova 5x5  
was with another Swainson hawk which  
appeared concerned. apparently the same  
pair I recorded carrying sticks on apr 21  
Craw ad stomach full of the remains  
of a ~~wood~~ cottonrat ad a baby cottonrat.  
Flores, Mazon, 4800 ft. el Chihuahua Mex.

April 24

- ✓ 6264 Green heron wt 259.2g. ♀ ova 4x4 m.  
Iris yellowish orange, lores and lower mandible  
yellowish green streaked with dark olive;  
legs yellowish green. little fat.



## Catalogue

Boell  
1964

Ojo Saguna, 5200 ft el. Chihuahua, Mex.

April 26

6265 Solitary Sandpiper ♀ ova minute. ~~wt 66.1g~~  
wt 66.1g. Fat.6266 Black and white Warbler wt 9.2g. ♂ testes 1x1<sup>m</sup>6267 yellowthroat ♂ testes 5x4m. wt 10.5g6268 Pocket gopher ♀ no embs. 150-65-31-5  
wt 183.5g.

April 27

6269 Junco wt. 20.3g ♀ ova minute6270 House wren wt. 5.8g. ♂ testes 2x26271 White Cr. Sparrow wt. 30.3g. ♂ testes 2x1

April 28

6272 ~~yellowthroat~~ Warbler wt 9.3g. ♀ ova minute

April 29

6273 white throated Sparrow wt 31.7g ♂ fat6274 Vesper Sparrow wt 24.2g sex ?

April 30

6275 Humming bird sex? wt 4.1g~~6276 white throated Sparrow~~





# Catalogue

3

Boell

1964

Ojo Laguna, 5200 ft. Chihuahua, Mexico.

May 2

6276 Townsend warbler ♀ ova minute, wt 8.4g  
First one seen at this location

6277 Inca Dove ♀ ova 1x1m. wt. 43.4g  
second one seen here

6278 Horned Lark ♂ testes 8x4m. wt. 29.2g.

6279 " " ♀ ova 2x2m. wt. 26.7g.

These two horned larks were together - no other horned larks present.

May 3

✓ 6280 Phalarope (Wilson) wt 42.3g ♂ testes 8x3m

6281 " " wt 57g ♀ ova minute.

A pair taken from a group of two ♂s & two ♀s that were displaying (rapid white zig) on a very small pond

6282 Western Sandpiper wt 27.4g, ♀ ova minute  
one of three

6283 Least Sandpiper wt 20.7g. ova minute  
one of two

6284 Yellowthroat wt. 11g. ♀ ova minute.

✓ 6285 Yellowlegs, lesser, wt 79.5g. ♂ testes 6x3m  
alone in small marshy area

6286 Chat wt 26.6g. ♂ testes 4x3m



# Catalogue

4

Borell

1964

Ojo Laguna, Chihuahua, El 5200 ft.  
May 4

- ✓ 6287 Summer Tanager wt 23.7g ♂ testes 5x3mm
- 6288 Verdin wt. 7.3g. ♂ testes 2x2.
- ✓ 6289 waterthrush, northern. wt 18.1g ♂ tes. 1x1 fat.
- 6290 Woodrat, wt 182.3g. ♀ 310-140-33-29  
Embs=two 10x25 mm. Two young  
about  $\frac{1}{3}$  grown were trapped at the  
same nest in the hollow stump  
of a cottonwood. The mammal indicated  
recent suckling

May 5

- ✓ 6291 Western Tanager wt 30g. ♂ tes 1x2 mm
- 6292 Orchard Oriole wt 19.3g ♂ tes. 5x3 mm.
- 6293 Sark Sparrow wt. 30g. ♂ tes 3x3 mm

May 6

- 6294 Waterthrush, northern ♂ tes. 1x1 collected at  
edge of small pool under cottonwoods.
- 6295 Dray Duck ♂ tes. 35x18mm. wt. of two  
testes 12.6g. wt of duck 663g. Thin. Bill  
yellowish green. more yellowish on  
the sides near base, no mottling. nail  
black, eyes dark brown, feet & legs  
bright orange. It was alone in  
a small pool when collected



# Catalogue

Borell  
1964

Ojo Saguna, El 5200 ft., Chihuahua, Mex.  
May 6 continued

6296 Swamp Sparrow Ova minute wt 15g.  
Collected at edge of small pool under  
cottonwoods

6297 Painted Bunting wt 18g. tes. 6x4 m, fat.  
on small bush near pool.

May 7

6298 Myotis wt. 8.4g. 93-35-9-15 ♀

✓ 6299 Ibis, glossy wt. 510g. fat. ♀ ova 3x3.  
iris reddish orange

6300 Orchard Oriole wt. 18.5g. 5 tes. 4x4 m

May 8

- 6301 Raccoon ♀ 850-305-125-55  
wt 12 lbs. little fat. 4 embryos, 40x30 m.

as measured in the embryonic sac.  
~~was 32-400 mm~~ Embryos saved in  
formalin. Stomach contents = bait.  
Mammary glands indicated that she  
had suckled young previously.

6302 Redstart, imm. wt 8g sex?



# Catalogue

Boull

1964

Ojo de agua, 5200 ft. Chihuahua, Mex.

May 9

6303

Black throated gray warbler wt 8.4 g fat  
♀ ova minute

May 10

6304

Wilson snipe wt 122 g. fat. ♀ ova 2x2 m.  
only one seen today

May 12

6305

Waterthrush wt. 18 g. ♂ tes 4x3 m.

May 14

6306

Vireo, warbling wt 11.8 g. ♀ ova minute

6307

Bunting, lazaruli. wt 14.8 g. ♀ ova minute

6308

Dowitcher wt. 99.4 g ♂ tes. 4x3

May 15

6309

Yellow warbler wt 10 g. ♀ ova minute

6310

Juncos wt 19.5 ♀ ova minute

6311

White throated Sparrow wt 32.5 g. ♂ tes 4x3

6312

Harvest mouse wt 11.2 g 140-68-18-13

~~6313~~

♂ tes 6x3

6313

Summer Tanager wt 32.4 g. ♂ tes. 6x5





7

# Catalogue

Borell

1964 Ojo Laguna, Chihuahua, 5200 ft. Mexico  
May 16

6314 Lizard

6315 Painted Bunting wt 16g. ♂ testes 6x4. This bird has ♀ plumage but the enlarged testes identify it as a ♂. There is no mistake.

May 17

✓ 6316 Bronzed Cowbird wt. 67.6g ♂ tes 6x11mm.  
iris reddish

6317 Red Bat wt. 12.3g. 101-41-7-8 ♀ one emb 7x5mm. in sac. Shot at 4 PM as it hung among the leaves near the top of a large cottonwood - about 40 ft from the ground.

May 18

✓ 6318 Cedar Waxwing wt 35.6g. ♂ tes 3x2mm  
a lone bird shot as it fed on mulberries

6319 Cuckoo, yellow billed. wt. 53.8g.  
♀ ova 2x2. large bare egg patch.  
Shot at 10 am. as it flew into a large cottonwood over our trailer.

May 20 Temp. 6 am 52° F.

6320 Lizard, whiptail



Catalogue

Borell

1964

Lago La Lajas, Rio Santa Clara, el 4900 ft  
Chihuahua Mex

Nov 22

6321 Ruddy Duck ♀? wt. 442 g. thin

6322 Grebe, sand ♀ wt 332 g. fat  
iris orange

Nov 23.

6323 Bufflehead ♀ wt 397 g. <sup>little</sup> fat.

Nov 25

6324 Cacomixtl ♂ wt 1080 g 730-353-70-51  
very fat. stomach empty. trapped at  
base of steep rocky slope near Rio Santa  
Clara a short way above the lake.

Nov 27

6325 Pintail ♂ wt 655 g thin



A. Borrell

1964

Journal



# Journal

Borell  
1964

Ojo Laguna, 5200 ft. el. Chihuahua  
Mexico (east base Sierra del Rio).

April 21, 1964 Cresencio

Reached the ~~Gutierrez~~ Gutierrez ranch at  
6:30 P.M. yesterday. Established camp  
(house trailer) at the same spot  
occupied in 1963 (Feb 28 - Apr 25),  
under the cottonwoods (H) in the yard  
of Sr. Gutierrez. Today made a trip  
on foot to some of the better  
collecting sites north of camp.

The <sup>whole</sup> area is considerable dryer than  
at this time last year. Several of the  
shallow water areas where I collected  
waterfowl and shorebirds last year  
are now dry. Someone (within the  
last week) burned most of the grass  
area for  $\frac{1}{2}$  mile north of camp. This  
burning removed the bullbrush and  
tall grass that formerly surrounded  
the largest pool. This burning and  
the dryness greatly depreciated  
one of the best collecting sites.

The big laguna to the east is  
completely dry. Sr. Gutierrez said  
they have had a cold, dry, windy  
spring. His cattle are extremely  
poor.





# Journal

2

Borell  
1964

Ojo Sajuma, Chihuahua, Mex. 5200 ft. el.

April 21, 1964 (cont)

Cottonwoods are almost in full leaf and the ♀ trees are shedding their cotton, willows are in bloom ~~first~~ and just beginning to leaf out. Mesquite are in various stages of leafage, some appear to be dormant others are just beginning to turn green and others are <sup>in</sup> about ~~in~~ 1/4 normal leafage. (no flowers)  
Grass in the marsh (Sacaton) has green sprouts 4 to 6 inches long. The general appearance of the marsh is still "dead". Among the mesquite there is little evidence of greening of the grass or forbs. The cattle are not foraging among the mesquite as they were at this time last year.



Journal

Borell  
1964

Ojo Saguna, 5200 ft. Chilodactyl, Chile.

April '21

Birds seen

Wilson snipe 2

Kilder 2

Swainson Hawk - 2 apparently a pair, both were carrying sticks of little finger size and 12-14 inches long. One held the stick in its beak and the other held it in its two feet. They circled about a clump of three large cottonwood but departed (still carrying their sticks) at my approach. This would seem to be a very late date for courtship or nest building by hawks.

Sparrow Hawk - 2

Turkey Vulture - 3

Dead Duck - only 2 apparently pair

Cinnamon teal - 2 (pair)

Green-winged teal - 12

Shoveler one ♀

Harris Hawk - 1

Barn Owl - 1

night hawk 7-10

Cuckoo - one heard

Mourning dove - 50 saw on head

no evidence of mating



Journal

Borell  
1964

Ojo de Laguna, Chihuahua, Mex 5200 ft  
April 21 1964

Inca dove - one, collected

Barn Swallow - 10

Red-shafted flicker - 1

Ladder-backed woodpecker - 2

Kingbirds? - 25

Wood pewee - 3 one collected

Vermilion flycatcher - 15 one female  
working on a nearly completed nest  
30 feet from the ground in a large  
cottonwood.

Say Phoebe - 3

Western Flycatcher - 2, one collected

Raven? - 6

House wren - 2

Mockingbird - 1

Herrin Thrush - 1

Shrike - 3

Solitary Vireo - 4, one collected

Audubon warbler - 3

Wilson's warbler (Pileolated) very  
abundant, 5 to 10 in each  
cottonwood. They feed from  
the ground to the top of the  
tallest trees but mostly in the  
mid section



# Journal

5

Buell  
1964

Ojo Saguna, Chihuahua, Mex, 5200 ft. el.

April 21 1964

Yellowthroat - 6

Mac Gillivray's warbler 4, one collected

Boat-tailed Grackle - 7 in flock

Brewer's Blackbird several large flocks

Redwing - 3

Meadowlark - 10 probably both

~~Heptateles~~ Tanager eastern & western.

Heptateles Tanager - 3 ♀, one ♀ collected

✓ Scott Oriole one ♂

Bullock Oriole - 10 ♂ & ♀ no

♂ nuptial activity observed

Pyrrhuloxia - 1 ♂

English Sparrow - 3

Lesser goldfinch - 10

House finch - 3

Green-tailed towhee - 3

Pine Siskin - 50-100 - feeding  
on the seeds of cottonwood

Savannah Sparrow - 6

Swamp " - 1

Lincoln " - 3

Gambel Sparrow - 15

Chipping " - 6

Brewer " - 60





## Journal

Bozell  
1964

Ojo de Fajana, Chihuahua, Mex. 5200 ft.

April 27 1964

A warm windy day. Saw  
no birds not recorded yesterday.

April 23

Cold night, warm and very windy  
day. New birds

Sandpipers (western or least?) - 14

Wilson warblers still abundant

✓ Wood pewee - 10. Worm-eating warbler,  
Wilson snipe - 2      unable to collect

Falcon, (Buteo hawk or prairie falcon?) - one

April 24

Trip to Flores Mazon, about 65 miles.

Cloudy in the morning, very windy  
in the P.M. Still some water flowing

in Santa Clara Creek. The new  
dam on Santa Clara creek above the  
town of Flores Mazon is supposed  
to be ready to store water this August.

All of the vegetation in the vicinity  
of Flores is further advanced than  
at Ojo de Fajana. There is an  
excellent camp and collecting site about  
 $\frac{1}{2}$  mi. south of the paved highway  
on the east bank of the Santa Clara. Several  
big ponds and many willows and cottonwoods



Buell  
964

Flores Mazon, El 4800 ft. Chihuahua Mex.  
April 24 (Cont)

Birds seen

Blue heron - 1

Green heron - 1 collected

Coot - 2 in pool on creek

Mexican Duck - 10

Mallard ♂ This drake was with 8  
mexican ducks. On the ground and in  
the air it stayed close to a ♀ Diag duck.

Blue-winged teal - ♂. ♀.

Green winged teal - 6

Shoveller - 3

Buzzard - 4 along the road en route

Swainsons Hawk - 3 along the road en route

✓ Harris Hawk - 1 feeding on road killed  
Jack rabbit.

Sparrow Hawk - 2 along the road

Scaled quail - pair

Killdeer - 4

Spotted sand piper - 1

Mourning dove - abundant at Ojo  
Laguna and at Flores. Some are

courting and displaying but most are  
in flocks and appear to be

migrants. I killed 4 at one shot for  
the pot. The three ♂ showed enlarged  
testes, the ova of the ♀ appeared dormant. all



Borell  
1964

Flores Major. 4800 ft. Chihuahua Mex

April 24 Continued

were fat but there had empty crops.

Inca dove, - 6

Night hawks - 6 at Ojo Sajua, appear  
to hesse

Barn Swallow - 10 Ojo Sajua

Roughwinged " - 15 " "

Violet Green " - 6 " "

Sadder-backed woodpecker, one at Flores one

Kingbird (?) common <sup>at Ojo Sajua.</sup> ~~at Ojo Sajua~~ and at Flores

Wood Pewee, common Ojo Sajua & at Flores

Black Phoebe - one along the Santa Clara

Ravens - 12 along the way

Mockingbird - 3

Curve-billed Thrasher - 6

Cactus wren - 4

Shrike - 2

Wilson's warbler - abundant

Anderson's Warbler - 3

Boat-tailed Grackle - 4

House sparrow - 6

Meadowlark common along the way

Bullock Oriole - 8

Pyrrhuloxia - 3

Brewer's Sparrow - 20



Boell  
1964

Flores Magon 4800 ft. Chihuahua, Mex

April 24, continued

White-Crowned Sparrow - 10

Lincoln's Sparrow - 1

✓ Pong-billed Curlew - 7 in a field  
10 miles west of El Guaco.

April 26

✓ Water-Thrush, observed with glasses at  
close range but was unable to collect  
It was on the ground at the base  
of a large cottonwood tree that grows  
near a small pool. Its teetering  
made it resemble a pipit.

April 27

It is still cold at night - 40-50°F.  
Have seen no snakes and only  
one small lizard. The wind blows  
hard part or all of every day.

Bird notes

Hepatic Tanager - saw another ♀

Wilson Warbler - still a few present  
but the population is declining. Reached  
its peak about Apr 24.

Cowbird - 1 - saw two yesterday  
(Apr 26) the first ones that I saw  
last year (63) was on Apr 25.





## Journal

Borell  
1964

Ojo de Laguna, 5200 ft. el. Chihuahua  
Mexico.

April 27 Continued  
White-crowned Sparrow - 20 - still  
about as many as when  
we arrived on Apr 21.

Wilson snipe - 1

Wood pecker - 10 far more  
numerous than last year - at  
least up to Apr 25.

Mourning dove - abundant - flocks  
up to 20 - apparently migrant.

Robin ♀ one

Pipit - 8

Sandpiper (least-western) - 2

Coot - 1 on small pond

Diaz ducks - 3 in a group.

Shoveler ♂ ad ♀

Cinnamon teal ♂ 2 ♀

Green-winged teal - 5

Swainson hawk, one, apparently  
the mate to the one I collected

juv I collected

Brewer sparrow - 30

R.S. Flicker - 1

Ladderback woodpecker - 1

House wren 1 collected

✓ waterthrush - 1



# Journal

11

Borell  
1964

Ojo Saguna 5200 ft. el. Chihuahua Mex

April 28

Drove to Chihuahua for mail & supplies.

Birds seen before we left at 9 am

4

~~Yellowthroat~~  
Masked warbler - collected

Cowbird - 3 - the first this year

April 29

Returned from Chihuahua at 5 P.M.

Birds seen after we returned.

✓ Orchard Oriole ♂ first and only one seen

✓ White throated sparrow - 1 collected

Vesper sparrow - 1

April 30

Day at camp. Cool, sunny, light wind.

Birds seen

Buzzards - 3

Sparrowhawk - 1

Mourning dove - 15

Barn owl - 1

Hummingbird (broad tailed?) 1 collected

Vermilion flycatcher - 6

Wood pewee - 2

Cassin kingbird - 8

Barn Swallow - 10

Raven - 6

Mockingbird ♂ 2



## Journal

Boell  
1964

Ojo Saguna, Chihuahua, Mex el 5200ft

April 30 continuedRobin - 3Shrike - 1Solitary vireo - 3Meadowlark - 5R.W. Blackbird one ♂ singing in cottonwoodBullock Oriole - 4 very little singing✓ Blackheaded grosbeak & only one seen todayAudubon warbler - 6Wilson's warbler - 15 still numerous  
but not so abundant as early last week✓ Kinglet - first one seen this year✓ Chat, yellowbreasted - 1, first one seenYellowthroat - 3Grackle - 7Lesser goldfinch - 2Pine siskin - 15 frequently feed  
on cotton wood seeds on the groundPyrrhuloxia - pair.Brown towhee - pair - first seen this yearBrewer Sparrow - 50Chipping Sparrow - 6White Cr. " - 24House " - 5



## Journal

Borell  
1964

Rio

San Lorenzo, 5000 ft, Santa Clara,  
Chihuahua Mex

May 1st

Made a trip from Ojo Laguna to San Lorenzo, which is village on the Rio Santa Clara about 13 miles up the river (south) from Flores Magon. The river bottom between Flores m. and San Lorenzo is irrigated and farmed to maize, cotton and other crops. We were told that the farm land continues up the river for another 10 miles. San Lorenzo is a beautiful spot with many shade and fruit trees, flowers, gardens, irrigation ditches and old adobe houses.

Here we met Mr. and Mrs. Jesse Siemens, American missionaries representing the Church of God and Christ. Visiting them were two other missionaries by the name of Peters - both had beards. Mr. and Mrs. Siemens were friendly and cooperative. Mr. Siemens, who has been in San Lorenzo for  $2\frac{1}{2}$  years, told us that last week he and three Mexican friends saw four deer on the hill across the





Bozell

1964 (Ojo Saguna), San Lorenzo, 5000 ft. el.  
 Rio Santa Clara, Chihuahua, Mex.  
 since May 1st. Continued  
 river from San Lorenzo. They got their  
 guns and managed to kill one. It  
 proved to be mule deer spike buck.  
 He said it was large enough  
 to be a real load for four men to  
 carry to the car. He said it was  
 excellent eating. Also Mr. Siemens  
 said that last winter (1962-63) the  
 natives of the village killed a  
black bear in the river bottom near  
 San Lorenzo.

Mr. Siemens told us that the  
 river at San Lorenzo flows throughout  
 the year. He said that permanent flow  
 comes from springs near Santa Clara,  
 40 miles above San Lorenzo. Also he  
 said that following thunder storms in  
 the summer the Santa Clara flows from  
 bank to bank.

Apparently the climate is milder along  
 the Santa Clara than here, at least the  
 mesquites appeared to be more  
 nearly in full leaf - but we  
 saw no blossoms.



Borell

1964

San Lorenzo, Rio Santa Clara 5000  
ft el. Chihuahua Mex

May 1st continued

Bird populations appear to be  
similar to Elgo Payuna except  
for the following:

Inca dove, common about Flores  
major ad San Lorenzo ad around  
buildings between the two.

Cactus wrens ~~more~~ common

Curve billed thrasher " "

House finch " "

Desert Sparrow " "



## Journal

Borell  
1964

Ojo de agua, 5200 ft el. Chihuahua Mex.

May 2

Made a trip through the mesquites west and north of camp (Gutierrez house) and also to the marshy area. The mesquites are now in about in half-leaf. There is little other greenery among the mesquites. Catclaw is just starting to leaf.

Bird observations among mesquites

Swainson hawk - 1

Turkey Vulture - 2

Scaled quail one pair, and one flock of 7.

Mockingbird, one pair.

Curve-billed thrasher - 1

Brewer Sparrow - 30

White Crowned Sparrow - 30

Lincoln Sparrow - 2

Ash Throated Flycatcher - 2

Shrike - 2

Brown Towhee - 2

Phrynosoma - 2

Cundabor warbler - 3

Wood pewee - 3

Vermillion Flycatcher 5

Spotted tanager 3



## Journal

Borell

1964

Ojo Sajona, Chihuahua, Mex. E 5200ft

May 2 continued

Black-tailed Jack rabbit - 3, one female shot for the Gutierrez family contained one large embryo. It moved actively and I suspect would have been ~~born~~ in about a week.

Marsh area: walked about two miles through the better part of the marsh area.

Diary Duck, saw eight. all were in pairs which would indicate that they are paired but that the hens are not yet incubating. When flushed (from very small pools) the hens quacked loudly about the same as the ♀ mallard. The drake has the low grating call of the drake mallard. One ♂ Diary duck appeared to be mated with a ♀ mallard at least the ♀ was a bit smaller and considerably lighter in color than the other Diary Ducks. How they will be able to raise broods with the scant bits of water here is a question.





# Journal

Buell

1964

Mexico

Ojo Sajuma, 5200 ft. el. Chihuahua,

May 3

Took a trip through the marsh, about the ponds, willows and cottonwoods and along the edge of the mesquites.

Bird observations

✓ Purple Martin, 3 flying over a small pool. ♂♂♀. First ones seen this year. None seen last year

✓ Phalarope (wilson) ♂♂♀♀. Four on very small pool. They ~~was~~ were whirling about rapidly when I shot a ♂ & ♀ at one shot

\* Chat one collected, the first this year  
None seen here last year

Hermit Thrush, the third one seen this yr.

Orchard Oriole two ♂s in cottonwood, willow and mesquite.

Wilson warbler - still the most common warbler but not abundant  
Wilson snipe - 2 most are ♂

Boat tailed grackle - 23 in one flock

Ruby Cr. Kinglet - 1

Audubon warbler - 1 ♀

Black & white warbler - 1

White Cr. Sparrow - 40 some beginning to sing

Chipping sparrow - 4



## Journal

Boell

1964

Ojo de Laguna, Chihuahua, Mex. 5200 ft. <sup>el</sup>

May 4

It is still staying cool. Most days have been under  $80^{\circ}\text{F}$  but at the moment (3 PM) it is  $85^{\circ}$  - our warmest day. Nights have been cool to cold - mostly  $45^{\circ}$  to  $55^{\circ}$  at 6 am. during the past week. Winds have been persistent and frequently heavy.

Birds of interest

✓ Blue Grosbeak one ♂ first seen  
 Black headed Grosbeak one ♀ the same  
 or other ♀s seen each day - no ♂s.

✓ Yellow Warbler first seen

Verdin ♂ & ♀ first seen

✓ ~~Water Thrush~~ Water Thrush a lone bird seen several times today around the edge of a small pool. Again I failed to collect it. <sup>Finally got</sup> one at dusk.

Bullock Oriole, Common. During the last few days nuptial displays have been observed. Two or more ♂s are fighting for territory in almost every cottonwood.

✓ Lazuli Bunting ♂ first seen

Orchard Oriole, two ♂s in cottonwood

Audubon Warbler ♂ & ♀

White Crowned Sparrows - about 20 around camp. a few are beginning to sing

Big Red with a one seen in  
the wood at camp at night.

Borell  
1964

# Journal

19

Ojo Saguna, Chihuahua Mex El 5200 ft

May 4 continued

Chipping sparrow 2

Summer 3 Tanager, Two ♂ in intermediate plumage (one collected) and at least 2 ♀.

Mourning doves, the large flock of migrating birds seems to have gone. The resident birds are cooing and nuptial flights are seen.

Pine Siskin - about 15 about camp.

There is no sign of nuptial activity. They are feeding on cottonwood seed and feed that I put out. They are very gregarious, as many as 7 or 8 frequently feed or drink within a square foot.

Wilson warbler - still common, mostly ♂ only a few ♀ seen. They are full of nervous activity and forage in a wide range of niches from the top to the bottom of cottonwood, willow mesquite and low shrubs. They also forage on the ground, about adobe walls and at the water's edge.

Black & white warbler. One seen several times today. It forages up and down the trunks of cottonwood in the manner of a creeper.



## Journal

Boell  
1964Ojoajuna El. 5200 ft Chihuahua Mex  
May 4 continued

Boat-tailed Grackle. Some nuptial display in evidence but they still fly about in groups of 7 or 10.

Yellow-throat - 10 mostly ♂.

Cassin Kingbird, common, as yet no evidence of nesting. Fly as many as 20 come to roost each evening in the big cottonwoods (4) over our trailer.

Phalarope Wilson 9 on same small pool where two (of 4) were collected yesterday.

✓ Lark Sparrow 3 (one collected) first seen





## Journal

Borell

1964

Ojo Laguna 5200 ft. Chihuahua Mex

May 5

There is a small pool (ajo) about <sup>beside our trailer.</sup> 20x20 feet. It is in the center of 4 large cottonwoods and is surrounded by an adobe wall 3-4 ft high. The site is an attraction to birds but I have added to its attraction by putting out oatmeal, toast, fruit scraps, wheat and bird seed. The latter is cheap in Chihuahua. yesterday I got the idea of putting a brush pile near the water and within good range of the adobe wall. The brush pile definitely and almost immediately improved the site for collecting birds that formerly drank and left promptly or flew at the slightest disturbance now loiter around the brush pile or take refuge in it when disturbed - thus offering an opportunity to collect the desired individuals.

\* over

The wind blew very hard last night and is still blowing - however the night was the warmest to-date - 60° at 6:30 am

Bullock and orchard orioles,  
summer and western tanagers  
and black-head grosbeaks fed  
on papaya and pineapple scraps.  
White Cr. sparrows, Lincoln sparrow,  
Sage-grouse, western tanager,  
Pine Siskin, Bullock Oriole,  
Orchard Oriole, Chipping Sparrow,  
Wilson warbler, Vermilion Flycatcher  
wood pewee, Hermit, Thrush.  
have already been seen in or  
on the bush pile that was  
established only yesterday.

Bodf  
1964

# Journal

Ojo Sajuna, 5200 ft el. Chihuahua Mex.  
May 5 Continued

Birds of note -

Blue grosbeak two ♂s.

Sagebrush lark &

Orchard Oriole 2 ♂s - one collected

Pied Duck - 9 in one flock

Blue winged teal 3 ♀ & 1 ♂. Two ♀s taken  
for the pot. They were thin and show no  
ova enlargement

Wilson Snipe - 2

Brewer Sparrow, numbers reduced,  
but 4 seen in one bush.

Western Tanager 2 ♂ & ♀, the ♂ collected.

Robin - 2

Lincoln Sparrow - 1

Chipping Sparrow - 4

White winged dove - 1 first this year.



Boull  
1964

# Journal

Ojo Laguna, @ 5200 ft. Chihuahua, Mex.

May 6

Still very windy but warmer  
56° at 6:30 am. 88° at 3 p.m.

Bird notes

Painted Bunting - 1 ♂ collected

Sagebi Bunting ♂ ♀ ♀

Indigo Bunting 1 ♂

Hooded Oriole ♂

Summer Tanager 3 ♀

Western Tanager 2 ♀

Orchard Oriole 2 ♂ 1 ♀

Phalarope, Wilson, 7 or same pool as yesterday

Blue Grosbeak 3 ♂

Black headed Grosbeak 4 ♂ 3 ♀

Audubon warbler 1 ♀

Wilson warbler 5 ♂, 3 ♀.

Yellowthroat 3 ♂ 1 ♀

White Cr. Sparrow - 30

Scaled quail - heard mating call

Water thrush neither 1 ♂ collected

Hermit Thrush - 1

Pine Siskin 6

Wood pewee - 4

Coot - 2

Brewer blackbird - flock of 12



## Journal

May 7

Boell  
1964

Ojo La Laguna, Chihuahua, 5200ft Mex  
Another very windy day 60°F at 7am.  
Some bird notes.

✓ Glossy ibis, lone bird collected  
in small marsh, first one seen.

Phalaropes - the small flock that has been  
here since May 3 was not present  
today

Blue winged teal, shot ♂ & ♀ for the pot.  
♂ was fat, tes 14x4. ♀ thin ova not enlarged.

Coots - three in marshy area

Sharp-shinned hawk - first seen  
Townsend warbler ♀ no ♂ seen so far.

No Siskins - the small flock that  
has been around camp until  
yesterday morning were not seen today  
Wilson warbler, a few still  
around - about 1/2 females

Black-headed Grosbeaks ♂ & ♀ common  
around camp

Blue Grosbeak 3 ♂ 1 ♀ around  
camp

Summer Tanager 2 ♀

Western Tanager ♂ & ♀ common  
around camp.

Orchard Oriole; adult ♂, immature  
♂ and ♀. Common.





## Journal

Boell  
1964

Ojosaguna, Chihuahua 5200 ft Mex

May 8

Cold, Cloudy, light wind, few drops rain  
Temp. =  $56^{\circ}$  at 7 am.  $76^{\circ}$  at 3 P.M.~~Poor~~ American Redstart one - collectedYellow warbler - 2 ♂Sharp shinned hawk - 1Townsend warbler - 1 ♀Audubon warbler - 2no pine siskinBrewer Sparrow - 2, apparently

most Brewers have gone.

White Cr. Sparrow - 20Ruby Cr. Kinglet - 1Wood Pewee - 2Scaled Quail, <sup>10</sup> mostly in pairs, one group of 4.  
3 shot for the pot. 2 ♂ had enlarged testes,  
♀ had enlarged ova but apparently not  
yet laying.



# Journal

25

Borell  
1964

Ojo de Fagua, Chihuahua, Mex, 5200 ft

May 9

Mild, Calm, Cloudy day

Temp 62° 7:30 am.

Because of a lame horse stayed  
around camp all day

Bird notes

✓ Cedar waxwing - 2 first seen  
Black throated gray warbler, first seen, collected  
Orange cr. warbler - 2, one collected for  
identification but not saved. This  
warbler has been seen (1 or 2 individuals)  
almost every day.

Virginia warbler - 3 one collected - first  
seen this year (not saved)

Townsend warbler ♂ 2 ♀

Mac Gillivray Warbler - 1

NO siskins

Wilson warbler - common, eight seen  
at one time, apparently a new flight  
has come in, about  $\frac{1}{2}$  are ♀.

Summer tanager 1 ♀

western " 3 ♂

Chipping Sparrow, has been common  
about camp, to-day only ~~two~~ apparently  
most have left.

Audubon Warbler ♂ 2 ♀



# Journal

26

Borell

1964

Ojo Sajuna, 5200ft, Chihuahua, Mex

May 10

A beautiful day - little wind  
Took a 2 mile hike through the marsh  
and mesquite and catclaw.

Catclaw about  $\frac{1}{4}$  in leaf. Mesquite  
now almost in full leaf - many  
in bloom or past bloom.

The general tone of the sacaton  
flat is "dead grass" - not enough green  
to noticeably change the color.

Bird notes

Diaz duck - one pair, 2 lone ♂ -  
possibly the ♀ are trying to lay

✓ Spotted sandpiper, first one seen here  
Wilson snipe, one - collected, proved  
to be a ♀ fat, ova 2x2.

Pipit - 3

Lark sparrow 2 pairs

Raven - 8

Mocking bird - 3

Coots - 2

Indigo bunting - 2 ♂, one ♂ was intermediate

Black headed Grosbeak 4 ♂ 2 ♀



Borell  
1964

Ojo de Laguna, 5200 ft Chihuahua, Mex.  
May 11

Cold night, Clear calm morning  
44° at 7 am.

Went to Chihuahua.

Birds noted before we left at 9:30 am.  
Chipping Sparrow - 1

Orchard Oriole - 3 ♂

Bullock Oriole - common, one ♀ gathering  
nesting material - saw no territorial  
squabbles yesterday or this am.

Western Tanager 4 ♂ at one tree on  
the brush pile under which we have  
pineapple trimmings. Saw only one ♀  
Yellow Warbler 2 ♂ singing, one ♀  
White Cr. Sparrows - 20 around feed area  
some singing.

Wilson Warbler - 4, number is down  
Townsend Warbler - 1

Barn Swallow 2 ♂ came to our pool  
side to gather nesting mud.

✓ Bronzed Cowbird 1 ♀ Saw it at close  
range with binoculars. Noted its larger  
size & red eye. also saw it inspect  
a Bullock Oriole (partially completed) nest.  
It departed before I got a shot  
Blackheaded Grosbeak 3 ♂ 1 ♀





## Journal

Borell  
1964

Ojoja yuma, Chihuahua, Mex 5200 ft

May 12

Returned from Chihuahua at  
5 P.M.White Cr. Sparrows are as  
numerous around camp as ever  
Hermit Thrush - 1Water Thrush - 1 collected.Audubon Warbler - several ♀

May 13

Cool, windy day.  $56^{\circ}7$  at 7 a.m.Took a two mile hike through  
the marsh and mesquite.Biologically it has been a quiet  
day.Solitary Sandpiper - 1Chipping Sparrow - 1Brewer Sparrow - 0Black headed Grosbeak were common  
about our feeding area (4 or 5 in  
sight most of the time on May 10 and 11.

To-day we have seen none

Blue Grosbeak - 1Inca Dove 1 ♂ cooingWestern Tanager - 6Townsend Warbler 1Audubon Warbler - 4 ♀ in sight  
at one time - this is a definite increase.



## Journal

Borell

1963

Ojosajuna, Chihuahua, 5200 ft. Mex.

May 14

84° F at 7 P.M.

Cloudy windy night. Cloudy, hazy and reasonably calm day 60° F at 6:30 a.m.

Birds were active this morning, much singing, bathing and courting as usual. Courting especially pronounced by Orchard Orioles, must be near peak of courting. Birds around the waterhole and feed area

Warbling Vireo - 5, more than seen before (1 collected)

4+ ~~Colima~~ Virginia warbler - 2

Orange Cr. warbler, collected but not saved.

Audubon warbler - 1 ♀

Wilson warbler - 3 ♀, 1 ♂

Yellowthroat 1 ♂

Yellow warbler 1 ♂ 2 ♀

Mac Gillivray warbler 1 ♀

Western tanager 2 ♂

Black headed Grosbeak - none

Blue Grosbeak 1 im ♂, 3 ad ♂, 1 ♀

Sagebi Bunting ♀ collected

4- ~~Or~~ Indigo Bunting - 1 ♀

Am Redstart 1 im ♂

Mockingbird 2 ♂ singing



Borell  
1964

Ojosajuma, Chihuahua, 5200 ft. Mex

May 14 continued

White Cr. Sparrow 70 - considerable singing

Chipping Sparrow 1♂ 1♀

Bullock Oriole - 2♂, 2♀, 1 im. ♂. considerable singing, little squabbling, apparently nesting territories have been established.

Grackles, Boat-tailed, 7. Grackles

do considerable calling and "singing"

but still go about in groups of (♀ & ♂) 5 to 9 and I have seen little nuptial displays.

Wood Pewee - 2

Vermilion Flycatcher ♂, ♀, ♀.

Downy Woodpecker, long-billed - 1

Diaz duck, lone ♂, pair, and group of two ♂ 1 ♀.

Coot - 3

Redwing Blackbird - 1♂

Killdeer - 2 pres. excited when I approached

For. Sparrow 2 pres.

Zenaidura Sparrow - 3

Song Sparrow - 2

Marsh wren - 3

Raven ? - group of 18 flying south

Say Pheasant none



## Journal

Boell

1964

Ojo Saguma, Chihuahua, 5200 ft. el Mex.

May 14 Continued.

It remained mild and hazy all day with only mild wind.

At 4:30 p.m. I encountered the first rattlesnake of the year. It was a large (4 ft) heavy bodied snake. It was in a little path that leads around one of the ponds. The unusual spot was between a willow and cottonwood with water and sedges on two sides of it and sacaton on the other two sides. It was olive gray in color with large diamonds, had ten rattles and had just eaten a cotton rat.

Last year (1963) by Apr 25 Mr. Gutierrez had killed two rattlesnakes and I had killed two. The one today is the first that either of us has seen to date this year. Also in a mile walk along a dirt road I encountered the "tracks" of four snakes of unknown identity. These are the first snake tracks observed this year. Snake tracks were common place prior to Apr 25 in this location last year.





## Journal

Boell

1964

Ojo de agua, 5200 ft. Chihuahua, Mexico

May 15

warm day, light wind, cloudy in am.  
60° F at 6:30 amTrip to the marsh in evening. most  
of the day around camp.

Birds of note -

✓ white throated Sparrow 1♂ collected  
this is the second one seen.Black-headed grosbeak - noneBlue grosbeak - noneWestern Tanager 3 ♂Barn Swallow - 10Cliff Swallow - 30Bonaparte winged Swallow - 30Purple Martin - 2Wilson Warbler - 2 (going down)Warbling Vireo - 8Cinnamon Teal ♂ & ♀Gray duck 1 pair one extra ♂Killdeer 2 juv. disturbed by my presenceP.W. blackbird 2 singing males.Lincoln Sparrow 1Tanager summer - 1 ♂ collectedScaled quail, a pair came to drink  
at our pool. The both drank repeatedly.  
These are the first quail to come to our  
pool at camp.



## Journal

Boell  
1964

Ojo Sajuna, Chihuahua, Mex. 5200 ft. el.

May 16

Mild day, wind medium, Temp <sup>7 a.m.</sup> 62° at <sup>7 a.m.</sup> 90° at 20 m.

Bird notes

Painted bunting 2 ♀ (green)Blue grosbeak - 1 ♂Western Tanager 1 ♂Black headed grosbeak - noneWilson warbler - 1Virginia warbler, 1 collected but not savedMac, Giltsey warbler 2 ♀Yellow warbler - 5 ♂ and ♀Yellowthroat - 1 ♂ apparently the same one  
come from pool eyes  
day.Lincoln Sparrow - 1White Cr. Sparrow - 20 around camp.Orchard Oriole 2 ♂ 3 ♀ around camp.Bullack oriole 3 ♂ 3 ♀ " "



## Journal

Borell  
1964

Ojo Saguna, Chihuahua, Mex. 5200 ft. el.

May 17

Blustery last night, a few drops of rain,  
a few showers in vicinity, some  
thunder & light rain. 60° at 6 am.

Bird notes.

little change from past few days.

White Co. Sparrow - ~~25~~ counted 17 in one group.

Brewer Sparrow - 2 (one shot but not preserved)

Lincoln " - 1

Painted bunting 1 ♀

Cuckoo (~~tree~~?) one heard

Wilson warbler - 2

Audubon warbler - ♂ & ♀

Yellow warbler 2 ♂ 3 ♀

Yellowthroat - ♂

Blue grosbeak 1 ad ♂ 1 im ♂

Black headed grosbeak 1 ♀, 1 ♂

Western tanager 1 ♂ 1 ♀

Orchard Oriole Common in mesquite and  
around cottonwoods. at least two pairs, possibly  
three prs. trying to establish territories in the  
four cottonwoods around our trailer. watched  
♀ followed by ♂ carry, carefully selected, ~~succulent~~  
grass fibers (6 in. long) to a partially completed  
nest in the pendant branches of a cottonwood,  
nest is 15 ft from the ground.



## Journal

Bozell

1964

Ojo Laguna, 5200 ft Chihuahua, Mex  
May 18<sup>th</sup>

Mild, sunny morning, cloudy and windy in the afternoon with a few drops of rain. No measurable rain since Apr. 21 - very dry, all springs flow and wet areas decreasing

## Bird notes

Cedar waxwing 1, collected  
Yellow-billed cuckoo, 1, collected

Wilson warbler - none

Western Tanager 1♂

Painted Bunting 1♀

Blue grosbeak 1 im. ♀

Brewer Sparrow - 1

Lincoln " - 1

White Cr. Sparrow still about 15 around camp.

Wood pewee - 2

Audubon warbler - 1♂

Yellow warbler - several ♂ & ♀

Ash throated flycatcher - 4.

Summer tanager - 1 im. ♂

Yellow breasted chat - 1





Boell

1964

Ojo Laguna, Chihuahua, 5200 ft. d. Mex.  
May 19.

Cool sunny morning, cloudy & wind  
in the afternoon 54° at 6 am.

Took a trap through the  
mesquite.

Scaled quail - 20. all in pairs

Since no lone ♂s were seen

I suspect that the ♀s are laying  
but have not started incubation.

Blue grosbeak, 2 ♂ pursuing one ♀

Black-throated Sparrow - 2 pairs

Mocking bird - 5 singing, presumably ♂s.

Brown headed Cowbird 2 ♀ 3 ♂

Wilson warbler - none

Black headed grosbeak - none

Western tanager - none

Jackrabbit - 3 adults, one  $\frac{1}{3}$  grown.  
The first young one seen this year.



Borell  
1964

Ojofaguna, Chihuahua, Mex. el. 5200 ft.

Summary of observations - Prepared May 17-20

April 21 through May 20

Spring is late, cold, windy, dry. Our Trailer has been parked the entire time under a clump of <sup>large</sup> cottonwoods, beside a small pool. The pool, about 25 ft in dia. when full is now down to 16 feet. It is maintained by a spring. The site is ideal for this part of the country. It is on the exact margin between the mesquite-catchaw slope and the <sup>mountain</sup> sacaton flats. Our pool and group of cottonwoods is the last permanent water and cottonwoods between the sacaton flats and the wide slope of mesquite, catchaw and dry grass land that ~~extends~~ extends from here to the base of the Sierra deluido, about 6 miles (guess) we are at the southeastern edge of the old town of Ojofaguna, which now consists of about 20 house ruins, several with standing walls, and one house occupied by Cresencio Gutierrez and his family. Gutierrez has about 30 head of very poor ~~herd~~ herd. Cows, one Angus bull, 4 mules, 1 horse, 14 chickens, and 12 pigeons. He raises about 5 acres of corn in a



## Journal

Boell  
1964

Ojosaguna, Chihuahua, Mex. 5200 ft.

Summary continued  
field that he plowed out of the sacaton  
within an area about 2 miles long  
and a half mile wide in the ~~upper~~  
(west) edge of the sacaton are about  
30 small springs (ojos). about ten of  
these have been dug out & form small  
pools. Most of them have hand dug  
ditches designed to "irrigate" the pasture.  
Two of the largest are used for  
meager irrigation of corn on the  
Gutierrez farm and a similar corn  
field on the next farm north.

Around the Gutierrez house  
and several of the casa ruins  
are introduced trees such as, mulberry,  
tamarisk, tree of heaven, bird of paradise  
(fruit), peach, and one black bean.  
The only native trees appear to be  
Cottonwood, willow and mesquite.

The Estación de Ojosaguna is  
on the El Paso-Chihuahua Railroad  
about 5 miles east (slightly south)  
of old Ojosaguna.

On April 21 this year there was considerably  
less surface water than when we  
left here on April 25 last year (1963).



Borell  
1964

Ojo Saguna, Chihuahua, Mex. 5200 ft.  
Summary Continued

Bird notes April 21 — May 20 1964

Blue heron one seen at Flores Magon  
on the Santa Clara, Apr. 24

Green heron, one seen and collected  
at Flores Magon on Apr 24

White faced glossy ibis, only one  
seen, collected, May 7

Coots, at least 3 still present on  
the ponds, no evidence of courting or nesting.

Diaz duck, about 8 here, none  
do indicate that laying and perhaps  
nesting has started. One ♂ diaz  
duck appears to be mated with a  
Mallard ♀. Along the Santa Clara  
at Flores Magon. There are likely  
more diaz ducks than here. at that  
location one ♀ appeared (April 24)  
appeared to be paired off with a mallard  
drake





## Journal

Boell

1964

Ojo Sajuna, Chihuahua, 5200 ft.  
 Summary Apr. 21 - May 20 Continued

Green-winged teal, a few individuals seen here and at Flores Magon

Blue-winged teal, a few individuals

Cinnamon teal, a few individuals here and at Flores Magon. one

pair <sup>♂ & ♀</sup> were still here on May 15

Shoveler, a few here and at Flores Magon

Mallard, one ♂ at Flores Magon

on April 24 and one ♀ here on May 2

Turkey Vulture 1 & 3 seen almost every day

Sharp-shinned hawk one individual seen on two occasions.

Swanson Hawk one or two seen almost every day.

Harris Hawk, one seen on April 24 & <sup>24</sup> 25

Marsh Hawk, one or two seen over the marsh almost every day

Sparrow Hawk, one or two seen on several occasions

Scaled quail, common but not so numerous as last year. all are in pairs now and are apparently either laying or ~~nesting~~ incubating.



## Journal

Boell  
1964Ojo de Laguna, Chihuahua, Mex. 5200 ft. sl  
Summary Apr 21 - May 20 - Continued

Killdeer always present in suitable marshy areas, now apparently nesting, probably 6 pairs within a mile of camp. Wilson snipe, common in marshy area, remained at least until May 10<sup>th</sup> when one ♀ was collected.

Long billed Curlew, group of 7 Ten miles w. of El Suro. on Apr 24

Spotted Sandpiper, one here on May 10 one at Flores Mayor on Apr 24.

Solitary Sandpiper, one collected Apr 26.

Lesser yellowlegs, one collected May 3.

Least Sandpiper singles and small groups seen about a small pool for a few days before May 3

Western Sandpiper - same as for Least.

Towhees, long billed, one (collected) May 14

Wilson phalarope 4-9 seen on small pool May 3-6. Gone on May 7.

White winged dove, only two individuals seen

Mourning dove common to abundant migratory flocks left <sup>shortly</sup> before May 4.

Many pairs are now seen in courtship flights and the cooing is heard daily.



## Journal

Boell  
1964

Ojo de Laguna, 5200 ft Chi Chua Chua, Mex.

Summary April 21 - May 20 Continued

Mica Dove, three lone birds here,  
common along the Santa Clara from  
Flores Mayor to San Lorenzo.  
Cuckoo, <sup>yellow billed,</sup> ~~species?~~ heard twice. May 18. one collected

Roadrunner, a few seen here  
and at Flores Mayor. There has been  
less "cooing" this year than last

Barn Owl, several individuals  
(or the same bird seen several times).

No mating calls around camp as was  
the case last year <sup>a Cottonwood May 19</sup> ~~and found one from~~  
Horned Owl, heard at camp one night.  
no other owls seen or heard.

Poorwill, one heard, near camp  
Lesser Night hawk, were common on  
April 21 and still are.

Humming bird, broad tailed, one collected  
few others heard. x

Red-shafted Flicker, one on several  
occasions, none recently.

Saddlebacked woodpecker, one or two  
individuals seen around one  
group of cottonwoods & willows. not  
common.



## Journal

Borell  
1964Ajo Laguna, Chihuahua, Mex. El 5200 ft  
Summary Apr 21 - May 20 ContinuedCassin's Kingbird, common, but not so abundant as it was two weeks ago.Black phoebe, one at Flores Major on Apr 24. None hereAsh-throated flycatcher, common among mesquites here and about Flores MajorWood Pewee, common, still presentEmpidonax, several of this group seen - not common - ~~not~~ ~~present~~Say Phoebe, very few seen, not so common as last year.Horned Larks, few seen, 1 collected.Violet-green Swallow - common - still hereRough-winged Swallow - common - still hereCliff Swallow, common, still here.Barn Swallow, common, two nests in the Gutierrez barn, one with 5 eggs and one with 1 egg on May 16.





## Journal

Boell  
1964

Ojo Sajuma, Chihuahua, Mex 5200 ft.

Summary Apr 21 - May 10 Continued

Purple Martin, 2 or 3 birds seen on  
three occasionsRaven, probably common & white-necked -  
common, 2 to 10 seen every dayVerdin, few among mesquites, not commonHouse wren, one collected Apr 27.Marsh wren, a few at each suitable  
marshy areaCactus wren, common in the  
cactus area from Flores Mayor to  
San Lorenzo. Very few here at Ojo.Mockingbird, common here and  
at Flores Mayor. Here they are  
usually seen in pairs (now) and  
are in full song.Curve billed thrasher, common  
Flores Mayor to San Lorenzo. a few  
here at Ojo.Robin, several lone individuals  
seen here. one singing in cottonwood  
over camp this morning.Hermit Thrush, 3 or 4 lone  
individuals around camp.Ruby Cr. Kinglet, several seen✓ Cedar waxwing, two seen in  
cottonwood near pool on May 9, one <sup>over</sup>

collected May 18. in a mulberry  
tree. Interdorsal examination indicated  
that it had been feeding heavily  
on the mulberries that are just  
beginning to ripen. They are the  
small blackish variety.

Borell  
1964

Ojo de Laguna, Chihuahua, 5200 ft. max  
Sumner April 21-May 10 continued  
Pipit, saw several each day  
in the wetland areas. The left  
about May 13, none seen the last  
few days.

Shrike a few present throughout the period.  
Solitary Vireo, 1 & 5 in cottonwood  
about camp each day. none seen  
the last few days

Warbling Vireo - were abundant around  
camp for a few days leaving May 14  
only one seen yesterday, none today-May 19.

Orange crowned Warbler, a few  
around camp until at least May 14  
when one was shot to verify visual  
observation.

Virginia warbler, one or two around  
camp each day until at least  
until May 16 when one was  
shot to verify identification

Yellow warbler, first seen on May 4,  
♂ & ♀ have been common since  
and are still here. Considerable singing.



# Journal

44

Boell  
1964

Ojo Sagua, 5200 ft Chihuahua, Mex.

Summary of observations

April 21 - May 10 continued  
Water thrush, northern, several  
seen on the same ones seen  
on several occasions around the  
pool in camp, 3 collected. none seen  
after May 12.

Mac Gellivays Warbler, not  
uncommon from Apr. 21 through May 16,  
none seen the last few days.

Yellowthroat - common about wet  
areas throughout the period. still present.

Yellow-breasted Chat, a few were  
here at least from May 3 to May 18.

Wilson's warbler abundant from Apr 21  
until May 11 when I recorded only  
4 around camp and noted the decline  
in numbers. None seen since  
May 18. In April most of those  
observed were males. As the ♂s began  
to leave the ♀s arrived. on May 7  
I recorded that about half of those  
present were ♀



## Journal

Boell  
1964Ojo de agua, Chihuahua, 5200 ft Mex  
Simnang - Apr 21 - May 20 ContinuedAmerican Redstart - 3Black-throated Gray Warbler - 1Audubon Warbler, Common from Apr 21  
here and at Flores Major, last recorded  
on May 18Black & white warbler - 2Townsend Warbler, 1 to 3 each day  
from May 2 through at least May 12Meadowlark, common in all  
grassy areas. Now all in pairs.  
Their song indicates that all the  
nesting birds that I have encountered  
are Eastern.Red Winged blackbird, since the migrator  
flocks left in early May redwings  
are not common. I know of  
only 3 singing ♂. Of course the  
marsh situation is not good this year.





Boell  
1964

46  
Summary-Apr 21-May 20  
continued.

Ojo La Juna, Chihuahua, 5200 ft Mex.  
Orchard Oriole, arrived in early May  
and have been common since. at least  
two pairs are busy with nest building  
in the cottonwoods around camp. There  
seems to be little conflict between  
the Orchard Orioles and Bullock orioles  
that are nesting in the same cottonwood.

Brewers Blackbird, several migrating flocks  
were seen until early May. None  
are here now.

Boat tailed Grackle, have been common  
since Apr 21 but have been seen and heard  
less the last few days.

Brown headed Cowbird, common since  
Apr. 28 when the first one was seen

Bronzed Cowbird, 1 seen on May 11, ♂  
collected on May 17

Western Tanager common from May 5  
through 15. only stray seen since then



## Journal

Borell  
1964Summary Apr 21 — May 20 Continued

Op Sajuna, Chitwa hua, 5200 ft, Mex.

Summer Tanager, one or more seen almost every day since Apr. 21, all have been ♀ or im. ♂. no adult ♂ seen.Pyrrhuloxia, Probably three pairs within a mile of campBlack headed grosbeak, First seen Apr. 30, was common until May 10. Since then only straggles.Blue grosbeak, First seen May 4, common around camp for several days. now only an occasional single bird seen here. Three seen <sup>together</sup> in the mesquite this morning may indicate nesting?Indigo Bunting, single males and ♀ seen on 3 or 4 occasions.Painted bunters, several ♂ & ♀ seen beginning May 6. One ♀ still present (May 19)



# Journal

48

Borell  
1964

Summary Apr 21 — May 20: Continued

Ojo Sajuna, Chihuahua, 5200 ft. Mex

Jazuli Bunter several ♂ & ♀ seen  
around camp between May 14-18.

House Finch, not so common as last  
year. only a few individuals seen or  
heard here. was common at Flores Major

Pine Siskin abundant ~~before~~ when  
we arrived on Apr. 21. They remained  
common around camp until early  
May when the population declined. On  
May 6 I recorded 6. After that only one  
or two stragglers were seen or heard.  
Pigmy Nuthatch — one seen on Cottonwood May 20  
Lesser gold finch, very few. none now

Green Tailed Towhee, few, none now

Brown Towhee, far less common <sup>than</sup> last  
year. only an occasional one seen here  
this year. Several were seen at Flores  
Major.

Sage bunter, several seen along the  
road. none recently



## Journal

Summary Apr 21 May 10 continued

Boell  
1964

Ojo de agua, Chihuahua, 5200 ft Mex.

Savannah Sparrow, Several in the marshy area. none now.

Vesper Sparrow, one collected Apr 29

Song Sparrow. First ones seen on May 5, several pairs seen since

Black Throated Sparrow, 2 or 3 pairs in the mesquites. none around camp as they were last year

Junco (gray headed) only 2 seen.

Chipping Sparrow, common from Apr. 21 until early May. None seen for the past few days.

Brewer Sparrow, common from Apr 21 until early May when there was a sharp drop in population. now only stragglers. one seen May 18.





# Journal

50

Boell  
1964

Summary Apr 21 - May 30 Continued

ap Sajama Chihuahua, 5200 ft. Max  
White Crowned Sparrow, a flock of 20-30  
has been around camp since Apr 21.  
I am surprised that there still is  
(May 19) at least ten here. They are doing  
a lot of singing and should be on their  
way.

White Throated Sparrow. 2 seen & collected  
Lincoln Sparrow, a few present since  
Apr 21. at least one is still here (May 19).

Swamp Sparrow, one collected May 6.



## Journal

Summary Apr. 21 - May 10 Continued

Bozell  
1964

Ojo Saguna, 5200 ft, Chihuahua Mex

Mammal notes.

Coyote, I believe they are not so common here as last year. Saw two together, the only ones seen. Heard them barking on three different nights. Few tracks seen.

Raccoon. Less common than last year. Saw only one set of fresh tracks and caught that individual, an adult pregnant ♀, the next night. I maintained a bait station along one of the main trails in the marsh but only the one stopped there during a three week period.

Shunk. Less common than last year. None seen, none stopped at the bait station and very few tracks were seen.

Bobcat - no tracks seen.

Black bear, see notes for May 1

Mule deer, see notes for May 1.



# Journal

52

Borell  
1964

Summary Apr 21 - May 20 Continued

Ojotsaguna, 5200 ft. Chihuahua, Mex  
Peromyscus, less abundant than  
in 1963. no formal trap lines were  
run but last year and this year  
traps were kept set in favorable  
places to keep mice out of camp  
supplies. Last year I felt that the  
population was greater and the  
supply more inexhaustible than  
in any place that I was ever in.  
Last year my traps continued to  
catch peromyscus throughout the two  
months we were here. The traps were  
set in the same spots night after  
night. This year camp is in  
exactly the same spot and many  
of the traps are along the adobe  
wall and beside the trailer tires where  
they were in 1963. This year Apr 21 -  
May 20, ten traps caught 2 or 3  
peromyscus each night for the  
first week. During the past three  
weeks the catch of peromyscus has  
averaged 3 per. week from the ten  
traps. Most of them were adults,  
very few of the ♀s were pregnant



Summary Apr 21 - May 20  
Journal, Continued

Borell  
1964

Ojo de Fajuna, Chihuahua, Mex  
Cottonrats. Last year I saw  
cottonrats on almost every trip  
through favorable sigmodon habitat.  
Sign was everywhere including grassy  
areas among mesquite. This year  
I saw only one sigmodon and  
fresh sign was absent most places  
examined.

Kangaroo rats sign appeared about  
as last year.

Lepus californicus, saw more  
this year than last year - about  
3 times as many. a ♀ killed on  
May 2 contained one embryo. one  
young,  $\frac{1}{3}$  grown, was killed on May  
19. Three others killed for the Gutierrez  
family were in good shape, 2 ♂, 1 nonpregnant ♀.

Lepus guillardi - none seen in  
the vicinity of camp. I did not go  
to the playa area where I saw  
one ad signs of others last year.





# Journal

54

Boell  
1964

Summary Apr 21 - May 10 Continued

Ojo Sajona Chikuchua, Mexico

Sylvilagus, appears to be a bit more numerous than last year. Four seen during the month.

Bats, not common, one myotis and one red bat collected. on many cool evenings no bats were seen.

Rock Squirrel, two seen in the vicinity of Flores Major, none here

Citellus spinosus, 5 seen here during past ten days.

Cratogeomys, sign about as last year, one specimen taken. Most workings are in hard soil among sacaton.

Neotoma, sign about as last year. one ad. pregnant & collected



## Journal

Bozell  
1964 Summary - Apr 21 - May 20 Continued  
Ojo Laguna, Chihuahua, Mex.

Reptiles were not common in 1964 (Feb 28 to Apr 25) however even by Apr. 25 they were more numerous than 1964 up to May 21.

Rattlesnake, one killed May 14. only one seen. none seen by Mr. Gutierrez. Last year he and I had killed 4 before Apr. 25.

Other snakes. one gopher snake smashed on highway near Chihuahua on May 12. No other snakes seen and very few "tracks" seen even though I have walked several miles along <sup>the</sup> dirt roads where tracks were common by Apr. 25 last year.

Lizards, a few whiptails seen, 2 collected only 2 or 3 Sceloporus seen, no other lizards.

Toads - none

Frogs - a few in and about the ojos.

Turtles. abundant in the ojo pools.



# Journal

56

Boell  
1964

Ojo Laguna, Chihuahua, Mex.

May 20

worked around camp getting ready to leave

May 21

Cut mesquite along the road on which we take our trailer when we leave.

at 11 am was bitten three times on the inside of my left leg three six inches above the knee by a black widow spider that had crawled up my trouser leg. continued to work but was very weak all afternoon.

May 22

unable to work, stayed in bed all day. Headache, nausea, pains in stomach, chest, pelvic region, knees, ankles. Short of breath and dizzy. Diaphoretic very uncomfortable. Temp 102°+



## Journal

Borell  
1964Ojo Laguna Chihuahua &  
Villa Ahumada

May 23

Still have all symptoms and discomforts of yesterday but feel a bit stronger. With Marynita's help was able to pack up and haul the trailer about 100 miles where we spent the night at the Pemex station at Villa Ahumada.

May 24

Another bad night but I was able to drive to Las Cruces New Mex. Still same discomfort. Body Temp 102° phoned a doctor who said there was nothing he could do after 4 days.

May 25

Drove on to Albuquerque. Still feel about the same but stronger and less headache. Will stay here a few days before we go to Denver.





# Journal

Borell

1964

Ojo Saguna, Chihuahua Mex

Nov 11

Left Albuquerque, New Mexico  
8 am. with GMC suburban  
and airstream Trailer. J. G. Bamberger  
and E. A. Duell, both of Albuquerque,  
are my companions. Reached  
El Paso Texas at 4 P.M. Spent  
the night in the El Rancho Trailer  
Park.

Nov 12

Spent all day getting Texas  
"Import Permits" in case we want  
to bring any game home with us,  
getting checked through customs,  
getting Mexican hunting licenses  
and trying to get Mexican  
gun permits. We almost  
made it but reached the  
Military post office at 2:15 P.M.  
and found that the offices close  
at 2 P.M. - so we must wait until  
tomorrow. Spent the night with  
our trailer in the big paved  
parking lot of the Juarez  
Customs station.



## Journal

Borell  
1964

Ojo Laguna Chihuahua Mexico

Nov. 13

Got final approval on our guns from the military and left with our trailer at 10:30 a.m. It is a beautiful day. Reached Ojo Laguna at 4:30 P.M. Parked our trailer under the cottonwoods near the house of Senor Cresencio Gutierrez where we worked during the spring of 1963 (march-april) and again in april and may of 1964.

As we drove into the Gutierrez yard we saw three Gambel quail about 50 yards from the house. These are the first Gambel quail that we have seen anywhere in Chihuahua. The birds were feeding under heavy mesquite growth near the road. Didn't want to shoot so close to the Gutierrez house - at least not before we checked in with the family.



## Journal

Borell  
1964

Ojo Sajuma, Chihuahua, Mexico  
Nov 14

Spent most of the day  
hunting for the Gambel  
quail that we saw yesterday  
but no luck.

Learned from Senor Gutierrez  
that there has been little rain  
for the past year. Most of  
the shallow watered areas and  
the ojos that provided so  
many birds during the past  
two springs are dry or almost so.  
Cattle are in poor condition - some  
have died. The weather is  
warm and windy. Willows  
and cottonwoods are yellow  
but still have most of their  
leaves. Mesquits have most of their  
leaves - still green. Leaves are  
gone from the catclaw. Grass  
and forbs are mostly dry.

checked all of the nearby ojos that  
have water. Saw no ducks  
and no shore birds except wilson  
sage and buldeer.



## Journal

Borell  
1964Ojo Saguna, Chihuahua, Mexico.  
Nov 14 continued

Birds seen

Ducks noneSandhill (Little Brown?) Crane - 7Sparrow Hawk - 2Red tailed Hawk - 1Marsh Hawk - 2Sharp shinned (Cooper?) Hawk - 1Wilson Snipe - 4Killdeer - 1Mourning Dove - 10Redrunner - 1Swallows - noneMexican woodpecker - 2Red shouldered Flicker - 1Marsh wren - 1Verdin - 2Shrike - 2Curve billed Thrasher - 1Audubon Warbler - 3Brewer blackbird - 300Boat tailed Grackle - 25.Horned Lark - 10Chestnut collared Longspur - 20Red backed Junco - 6





## Journal

Boell

1964

Ojo Saguma, Chihuahua Mex  
Nov 14 Continued

Brown Towhee - 2

Severnall Sparrow - 10

White Crowned " - 12

Black Throated " 2

Raven - 1

Brewer Sparrow - 9

Meadow Lark - 3

Snow goose - small flock flying south

MammalsCoyote - tracks common - heard last <sup>night</sup>

Raccoon - tracks common

Jackrabbit (calif) - 1

Cottontail - 4

Nov 15

Hunted for Gambel quail - no success

Saw 10 Scaled quail

Nov 16

Still can't find the three Gambel quail seen on Nov 13. Scaled quail scarce. Bomerberger, Duell and I saw only 6 today.

Sandhill (little Brown) crane - 8

no birds not recorded on Nov 14



## Journal

Bozell  
1964Ojo Saguna, Chihuahua, Mex.  
Nov 17

Made a round trip to Ricardo Flores Major and located a site where we can park our trailer. The new presa (dam) four miles above Flores Major on the Rio Santa Clara is almost completed. The gates were closed ~~in~~ <sup>August</sup> ~~September~~. About 200 acres (surface) of water are backed up behind the dam.

About 50 coots and 200 ducks on the lake.

Back at Ojo Saguna -

A flock of about 50 sandhill cranes circled over the dry lake bed and headed south.

Nov 18

Drove to Chihuahua

Nov 19

Returned to Ojo Saguna from Chihuahua at 11 AM station 1700, 67 km. south of our camp saw 4 Black Vultures with 2 Turkey Vultures feeding on the carcass of a dog. During



Boell  
1964

Ojo Sajona, Chihuahua Mex

Nov 19 continued

The many traps that I have made along this road during from late Feb. through early May in 1963 and 1964 I have not previously seen a black vulture north of Chihuahua.

In the evening again hunted for the Barred Quail saw one running under heavy mesquite but failed to collect it.

Between Nov 14 and 19 we took "for the pot" 12 scaled quail near our camp at Ojo Sajona. The crops of all of these contained grasshoppers, the largest number was 15. In addition most of the crops held a few seeds and bits of green vegetation.

During this period we took "for the pot" 14 mourning doves. The crops of most of these held seeds and one or more kernels of corn from a nearby unharvested field.

Cottontails - 5. - Not abundant but much more common than during the spring of 1963 or 1964.



# Journal

Borell  
1964

Ojo Sajuma, Chihuahua, Mex.

Nov 20

Horned Owl - heard one last night  
Golden Eagle - one circled over  
camp at 7 a.m.

Packed up and left Ojo Sajuma  
at 10 a.m.

3 P.M. Reached camp at the  
community of La Lajas, 6 miles  
by road above Ricardo Flores Magon.  
(El Carmen on some maps). La Lajas  
was a scattered community on the  
Rio Santa Clara. Now the lake formed  
above the new presa has forced  
most of the people to move to  
new locations - some to San Lorenzo.  
When they moved they took the doors,  
windows and vegas from their  
adobe homes. Some hauled away  
the adobe bricks but the adobes  
of most houses (walls) are still  
standing. The lake (La Laja  
La Lajas is now about  $\frac{1}{3}$   
full. When it fills many





# Journal

Borell  
1964

Lago Las Pajas, Rio Santa Clara, El. \*4900 ft  
Chih. Mex.

20  
continued

more families living in the river bottom above the Presa will have to move. The river bottom now being flooded as well as the valley floor for several miles above and below the new presa is divided into numerous small farms. These farms raise cotton, corn, chili, a few vegetables and a little alfalfa at present the flooded corn fields in the upper end of the lake provide feeding grounds for coats and ducks.

The new lake is providing a <sup>deep</sup> ~~deep~~ water environment not previously present in the Sierra del Tido area. The dam was far enough along to close the gates this past August. The Rio Santa Clara is now discharging a ~~relatively~~ large flow into the lake. There is enough flow that even with hip boots I have to look for a favorable crossing.

\* Elevation obtained from Emilio Monte Mayor, engineer at the presa.



# Journal

Borell  
1964

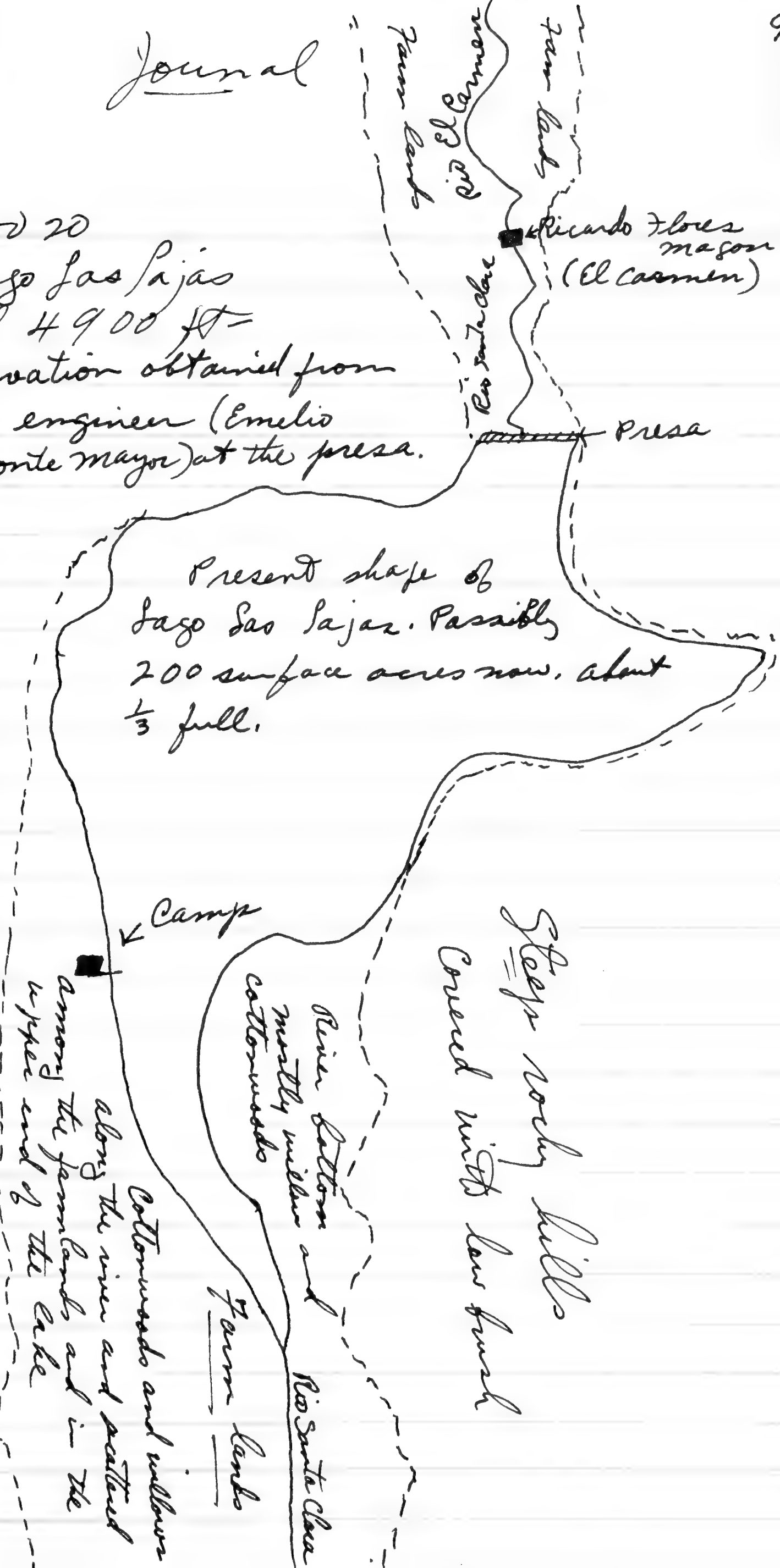
Nov 20

Lago Las Pajas

El 4900 ft =

Elevation obtained from  
the engineer (Emelio  
Monte Mayor) at the presa.

Low rocky hills, mostly with  
gentle slopes covered with low brush and  
some grass. The flats are covered with cholla,  
mesquite, pecan, and some green





## Journal

Borell  
1964

Nov 21 Las Pajas Chihuahua Mex.

Did a bit of exploring around the lake then drove up the Rio Santa Clara to San Lorenzo.

Birds seen between camp and San Lorenzo

Quail - None

Mourning Doves - 10

Inca Doves - 6

Curve billed Thrasher - 4

Brown Towhee - 6

Linnet - 15

Cactus wren - 8

Black phoebe - 2

Say ~~phoebe~~ - 4

Rock wren - 2

Sparrow hawk - 1

Red. Tailed hawk - 1

White Crowned Sparrow - 3



# Journal

Borell  
1964

Nov 22

Lago, Las Pajas, Rio Santa Clara, El 4900 ft  
Chihuahua, Mex.

Hiked around the upper end of the lake.

Birds seen

- Mallard — 10 — Two ♂ shot (not saved)  
Daisy duck — 20 — one shot. (one ♂ weighed 1051 g.)  
Green winged teal — 40 — 8 shot not saved  
Cinnamon teal — 1 — shot "  
Spoonbill — 6 — 1 shot "  
x Ruddy duck — 20 Two taken one saved  
✓ Buffle head — 2  
Pintail — 4 — 2 shot not saved  
unidentified ducks 100

- Wilson snipe — 6 one shot  
x Grebe, Eared — one taken saved  
Killdeer — 20  
Sandpeppers (western? least?) — 50  
Kingfisher — 1  
Coots — 100  
Mourning doves — 20  
Inca doves — 6  
Spotted Sandpiper — 1





## Journal

Borrell  
1964

Lago La Pajas, Rio Santa Clara, El 4900 ft.  
Chihuahua Mex

Nov. 23

Hiked up the Rio Santa Clara  
to a point where I could wade  
it above where it empties into  
the lake, then hiked down stream  
and along the east side of the lake  
where I collected a bufflehead duck.

Later I hiked through the mesquite  
and cholla near camp on the  
west side of the lake

Birds seen

Bufflehead - 1

Mallard - 30

Mexican Duck - 6

Green winged teal - 25

Spoonbill - 6

Ruddy duck - 10

Pintail - 5

Sparrow hawk - 2

Sharp shinned hawk ♂ - 1

Marsh hawk - 1

Red tailed hawk - 1

Wilson Snipe - 30

Killdeer - 8

Spotted Sandpiper - 2

Scaup - 1 - first seen.



Borrell  
1964

Lago La Lajas, Rio Santa Clara El 4900 ft  
Chihuahua Mex.

Nov 23 continued.

western or least Sandpiper - 30

Mourning dove — 50

Inca dove — 15

Roadrunner — 2

Barn Swallows — 6

P.S. Flicker — 2

Curve-billed thrasher — 6

Cerulean Warbler — 8

Boat-tailed grackle — flock of 12

Red backed juncos — 20

Brown towhee — 8

White Cr. Sparrow — 12

Chipping Sparrow — 2

Kingfisher — 1

Black Pheasant — 6

Linnet — 20

Cactus wren — 50 — more numerous than I have ever observed before. of special interest is their presence among logs and drift wood along the lake shore. In one case I counted ten around one group of logs. They are more concentrated along the edge of the lake than among the cholla.



Borell  
1964

Lago La Lajas, Rio Santa Clara,  
El 4900 ft. Chih. Mex

Nov 23 Continued

Coot - abundant on all parts of  
the lake.

Vermilion Flycatcher - 3

Ruby Crowned Kinglet - 2

Scaled Quail - 15

Gambel Quail - after looking at pictures  
natives said they had not seen this  
quail here.

Mammals

Cottontail - none to date

Jacksrabbit - 1

Coyote - heard and many tracks seen.

Raccoon - tracks on all the trails near  
the lake

Rock Squirrel - 2

Pocket gopher - sign abundant.

Woodrat - frequent sign among mesquite  
and cholla

Gray Fox - natives, after looking at  
pictures, said this species common here

Ring tailed cat - after looking at  
pictures natives said it is common.

Feral house cats - 2

Skunk - several (Striped) dead along the  
roads - tracks common along the trails.



## Journal

Buell  
1964

Chihuahua, Mex.  
Lago La Pajas, Rio Santa Clara, 4900 ft  
Nov 24

Drove to Ricardo Flores Magon  
Saw one covey of 12 Scaled quail.  
a group of 3 natives came to camp  
with a bag of 45 scaled quail  
that they wanted to sell for \$7.00.  
Obviously they had been trapped.

Nov 25

Hiked up the Rio Santa Clara  
and around the upper end of  
the lake.

Some birds seen -

Mearns quail - 1

Mourning dove - 200

Spotted Sandpiper - 2

Wilson Snipe - 20

Killdeer - 6

Western (Least?) sandpiper - 20

• Kingfisher - 1 wild, unable to collect it.

Cared grebe - 3

Ruddy duck - 8

• Scaup (Lesser?) - 1

Bufflehead - 3

Spoonbill - 4

• White throated Sparrow - 1

Red tailed Hawk





## Journal

Borell  
1964

Chihuahua, Mexico.

Lago La Pajas, Rio Santa Clara, 4900 ft. el.

Nov 26 Thanksgiving.

Stayed around camp.

New birds seen

Yellow bellied SapsuckerLark Bunting - 1~~Beewick's~~ Wren Beewick - 1Black Throated Sparrow - 2

Nov 27

Went to Ricardo Flores major in the morning and worked around camp in the afternoon

In the evening (about 7:30 P.M.) Emilio Montemayor, Supt. of the New presa came to camp with three other men. It was a social call but also they wanted to borrow a spotlight or flashlight so that they could hunt ducks on the lake at night. They said they had a home-made boat.

There are perhaps <sup>3</sup> hundred ducks of all kinds on the lake. They feed along the shore and in the shallow upper end but spend most of the day <sup>in small groups</sup> on the open water.



## Journal

Borell

1964

Chih. Mex

Lago La Pajas, Rio Santa Clara @ 4900 ft  
Nov 28

Took a long hike up the Rio Santa Clara, also a trap through the Mesquite and Cholla near camp.

New birds seen

Pyrrhuloxia - 2

Mocking bird - 1

Green tailed Towhee - 1

White Throated Sparrow - feeding alone on the ground near camp - second one seen here this trip.Belted Kingfisher - 1. Third time seen likely the same bird. very wild. wouldn't let me get within gun range.Bewick wren - 1 second time seenMallards - Diary Ducks - about 40 jumped from wide places in the river. I now estimate that there are about 100 Mallards and Diary ducks in the vicinity. These two species are often together but usually not with other kinds of ducks. In most cases Diary ducks predominate in the flocks. In one case I counted 12 in one flock and 20 in another which all



Boull

1964

Nov 28

Lago La Sajas, Rio Santa Clara  
 continued 4900 ft. Chih. Mex  
 appeared to be Diary Ducks. These  
 large ducks appear to feed in  
 the cornfields at night. They spend  
 the day on the lake or along the  
 river.

When the lake fills this should  
 be a fairly important stopping  
 place and possibly wintering  
 place for many birds of ducks.  
 Also it will be a real  
 help to nesting Diary Ducks.

Hunting - There were no other  
 American hunters here during  
 our stay. I expect that there will  
 be American hunters here when  
 the lake fills and becomes better  
 known.

I was surprised at the  
 number of native hunters. We  
 saw hunters and heard shooting  
 every day. Most of the hunters  
 had 22's, at least two had  
 shotguns and we heard some  
 shooting that sounded like a  
 rifle larger than 22.



# Journal

19

Bouff

1964

Lago La Sajao, Rio Santa Clara  
4900 ft. Chih. Mex  
Nov. 28 Continued.

At present there is only one poor homemade boat on the lake. When boats become available we can expect duck hunting to increase.

Although quail trapping is common here we saw no evidence of duck trapping.

Nov 29

Spent the day packing.

In the evening took a short hike around the head of the lake.

- Common Goldeneye - just one seen.  
Mourning Doves. During the just few days here doves were common but not abundant. On Nov 25 they suddenly increased. ~~By the~~ Apparently they reached their peak yesterday when flocks of 2 or 3 hundred were seen. I saw 50 or 100 doves in each of several dead trees yesterday evening.





## Journal

Borrell  
1964

Lago La Pajas, Rio Santa Clara Chih. Mex

Nov 29. Continued.

Doves are still abundant but apparently far down from yesterday's numbers. In the same trees in which I saw 50 or more yesterday there were 10 to 20 today.

Herons from Nov. 20 through 29 we saw no green or other herons.

Nov 30

Left camp at 8 a.m. - reached Las Cruces New Mexico at 4 p.m.

Dec 1. Left Las Cruces, N. Mex., at 7 a.m. - reached Albuquerque at 2 p.m.

Dec 2-4 in Albuquerque N. Mex.

Dec 5 Left Albuq. 11 a.m. - reached Springer N. Mex. at 5 p.m. - snow and very cold.

Dec 6 Left Springer at 9 a.m. - reached Denver at 3 p.m.



A. Borell

1966

Journal and

Catalogue

#6326-6327



# Catalogue

Barell  
1966

Ojo Sajuma, 5200 ft. el.  
Chihuahua, Mex April 16

6326

Cattle Egret ♂ tes. 10x4 very  
fat. iris light yellow, bill bright  
yellow, legs greenish gray, more  
greenish on bottom of feet,  
around and above the knee.

Bird was alone, sitting on a  
fence post in a pasture. First seen  
at 10 am. collected in same  
area at 6 P.M. This is the  
first cattle egret I have seen  
in Chihuahua

6327

Ring-necked duck ♂ tes 14x4  
Good shape but very little  
fat. It hit on a small  
pond at 6 P.M. with another  
of the same species. New record  
for the Sierra deluido area.



1

Journal

Borell  
1966

Ojo Laguna, 5200 ft. Sierra  
deluido, Chihuahua, Mex.  
Gutierrez ranch.

April 13.

Marquinto and I brought  
our trailer to this old collecting  
site at 10 a.m. yesterday. Found  
Mr. and Mrs. Gutierrez in  
good health and cordial  
as usual.

Dr. and Mrs. Martin H.  
Gonzalez, Director, Rancho  
Experimental La Campana  
stopped by yesterday afternoon.  
He reported that last year  
he had heard of two small  
black bears being killed  
in the range south of  
the Sierra deluido. He has  
had recent reports of guzzies  
from this area.  
Gonzalez, whose experimental  
station is about 15 mi. south  
of our collecting site (on  
the Gutierrez Ranch) said  
that the average rainfall  
here is 14 inches. The last





Borell Ojo Sajuma, 5,200 ft. el.  
 1966 Sierra deluido, Chihuahua  
 Mex.

Apr. 13 continued.

Two years, 1964 and 1965, have been very dry - less than 7 inches each year. Most of the rain comes in July and August with small amounts in June and Sept.

This morning? Took a long walk (4 hrs) through the mesquite and out to the ojo in the Tabosa flats.

Mesquite is just beginning to come into leaf, willows are in bloom, catclaw shows little green, cottonwoods are about half way to full leafage - there is little evidence of the emergence of animals.

Due to the two year drought the ojos are low and most of the wet areas resulting from the overflow from the ojos are dry.



Borell  
1966

Ojo Sajuma, 5200 ft. el.  
Sierra del Zudo, Chihuahua Mex.  
Apr 13 cont.

Birds seen - Wilson snipe - 2  
Mexican duck ♂ ♀

Turkey vulture - 6

Sparrow hawk - 2

Swainson hawk - 2

Marsh hawk - 3

5 called quail - 20 - there are  
still in coveys. Heard no calling  
ad saw no evidence of pairing  
or mating. I hunted especially  
for Gambel quail that I  
saw here in Nov 1964 but  
saw none.

White winged dove - 1

Mourning dove - 30

Redrunner - 1

Hummingbird sp? - 1

Redbacked woodpecker - 2

Gray Pheasant - 1

Vermillion flycatcher - 3

Cassin? Kingbird - 3

Ash-throated flycatcher 2

~~Black-chinned flycatcher~~

Barn swallow - 6

Wood Pewee - 1



Boell  
1966

Ojo Sajuma, 5200 ft. Sierra  
deluido, Chihuahua Mex  
Apr. 13 cont.

Parula — 6

Verdin — 5

Gratcatcher — 3

Wren, Cactus — 1

" Marsh — 1

Mockingbird — 2

Thrasher, Crissal — 1

Butcherbird — 1

Audubon warbler 2 ♂ in  
breeding plumage

Yellowthroat ♂ & ♀

Orange-crowned warbler — 1

English Sparrow — 5

Blackbird, - Brewer — 30

Boat-tailed Grackle — 6

Bullack Oriole ♂ apparently  
arrived to-day - none seen or  
heard in the cottonwoods around  
camp yesterday.

Linnet (house finch) — 8

Goldfinch, black-backed — 5

Pyrrhuloxia — 2

Junco - green tailed — 20

Park bunting — 30 along the road  
but not here at camp.



Borell  
1966

Ojo Ayuna, 5200 ft. Sierra de  
nido, Chihuahua Mex.

Apr 13 continued

Sparrow black throated - 3

" Lincoln - 10

Chipping sparrow - 50

Brewer " - 10 - not

nearly so abundant as in the  
spring of 1963 & 1964

White-crowned sparrow - 8

Junco - pink sided - 1

" - red backed - 3

Pine Siskin - 30

Meadowlark - 8 - song indicated "Eastern"  
and "western"

Mammals -

Coyote - 2

Citellus (spinosus?) - 1

Peromyscus maniculatus - ~~1~~

Common around camp. 4 traps  
yielded 3 last night.

Neotoma - caught one near camp  
last night

Sigmodon - saw one in grass  
among mesquite.





Borell

1966

Ojo Sajuma, 5200 ft. Sierra  
del Nido, Chihuahua Mex  
Apr 13 cont.

Mammals cont.

Cotton-tail. Cotton-tails have  
greatly increased since the  
spring of 1963. If my memory  
serves me correctly during  
March and April of 1963  
I saw only 4 cotton-tails. In  
late April and early May of  
1964 I saw a few more but  
they were still rare. In  
Nov. 1964 an hour in the  
mesquite and catclaw would  
result in seeing 3 or 4 cotton-tails.  
To-day in the same areas  
I saw no less than 20  
different cotton-tails. Furthermore  
they were more widely distributed  
- several were seen in grassy  
areas with few mesquites that  
did not appear to be favorable  
habitat for cotton-tails. Two  
appeared to be young of the year  
and one ♀ shot for the post  
contained 3 (half inch) embryos.



Boell  
1966

Ojo Laguna, Sierra del Nido  
5200 ft. Chihuahuas nest  
Apr 13 cont

mammal-cont.

Lepus californicus - In mar. &  
April 1963 jackrabbits were  
scarce but were more abundant  
than cottontails. In 1963 an  
early morning or late evening trip by  
car along the two mile road  
leading from the camp to the  
highway would usually result in  
seeing one or maybe 2 jacks.  
In 1964 (Apr.-May) two to three  
were commonly seen along this  
same stretch of road.

I was not here in 1965  
This morning on a trip up and  
back along this same stretch  
of road I counted 10 jacks.



Boell  
1966

Ojo Sajuma, Sierra del Indio  
5200 ft. Chih. Mex.

Apr. 14

Again spent the morning  
hiking through the mesquite and  
catalpa in search of Gambel  
quail - to no avail.

By noon the temp. had dropped,  
the wind was blowing and  
dense clouds were gathering. Between  
4 and 5 P.M. we had about  $\frac{1}{4}$  inch  
of rain accompanied by  
thunder and lightning - most  
unusual to have rain at this  
season - especially during a period  
of drought - Mr. Gutierrez (and  
his cows) are happy.

Apr. 15

Cold, windy and cloudy - took  
a hike through the mesquite  
- critters were scarce - nothing  
new. By 4 P.M. we needed lights  
in the trailer. Between 5 and 6 P.M. during  
a thunder and lightning storm we had  
a small cloudburst - at least an  
inch<sup>of rain</sup> maybe two. Every trail and  
gully became a small river.



Borell  
1966

Ojo Saguna, Sierra del  
Zido, 5200 ft. cl. Chilpancingo, Mex.

Apr 16

After the down-pour between  
5 2.6 P.m. we had a gentle  
rain until about 10 P.m.

This morning the sun came out  
bright and warm.

The rains of Apr 14 & 15 are  
most unusual. Coming at this  
time of the year they should have  
a decided effect on annuals  
other vegetation and this on  
wildlife.

Searched the Gambel quail  
country and the ojo's until 2 P.m.  
and then again in the evening  
saw no Gambels and only 10  
scaled quail.

New birds seen

X Cattle Egret - collected

Coot - 2

Wilson warbler ♂

Redwing 2 ♂

X Am. goldfinch - ♂

X Ring-necked duck - 2 - 1 collected

Killdeer - 2

X = new to the del Zido survey





Borell  
1966

Ojo Saguna, Sierra del Nido, 5200  
ft. el. Chilpancingo Mex

Apr 17.

Cold windy and partially  
cloudy day  
new birds

x Belted Kingfisher - new for this  
not collected - too wary. location

Ruby Crowned Kinglet.

Apr 18 Cold and windy

7 am. watched nuptial flight  
of 4 Diaz ducks. A ♀ quacking  
loudly and continuously flew  
in a wide, high arc for  
about  $\frac{1}{2}$  mile. She was closely  
pursued by two (silent) birds  
apparently males. a fourth  
bird followed (silent) about  
100 feet behind the other three.  
This is the fourth time I have  
seen these flights in the six  
days. In the first instance  
the ♀ quacked loudly and continuously  
was followed by only one ♂  
(silent). In two other cases she  
was followed by 2 ♂s. Two flights  
were in early morning, two  
at dusk. \* (See p 11)



Boell  
1966

Ojizalaguna, Sierra del Indio.  
5200 ft el Chihuahua Mex.

Apr 18. cont.

new birds.

Barn owl - one flushed from  
large cottonwood. Have  
heard Barn owls screech  
on previous nights.

Apr 19

left camp at 7 am. headed  
for Juarez and home.

\* About  $\frac{1}{3}$  as many Diaz ducks present  
in this area as were here in April  
1963. This is likely due to the drought  
- there is little water except that in  
the 4 principal ojos.

A.E.B.











